

SCORE Search Results Details for Application 10782728 and Search Result 20070125_120425_us-10-782-728-1.rapbn.

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This page gives you Search Results detail for the Application 10782728 and Search Result 20070125_120425_us-10-782-728-1.rapbn.

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GenCore version 6.2
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OM protein - protein search, using sw model

Run on: January 27, 2007, 19:32:30 ; Search time 52 Seconds
(without alignments)
23.569 Million cell updates/sec

Title: US-10-782-728-1
Perfect score: 52
Sequence: 1 LKQNGGNFSL 10

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 507816 seqs, 122560497 residues

Total number of hits satisfying chosen parameters: 507816

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Published_Applications_AA_New:*

- 1: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
- 2: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
- 3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
- 4: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
- 5: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
- 6: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
- 7: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
- 8: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

%

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OM protein - protein search, using sw model

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Run on:      January 27, 2007, 19:17:14 ; Search time 99 Seconds
              (without alignments)
              49.428 Million cell updates/sec
```

```
Title:      US-10-782-728-1
Perfect score: 52
Sequence:   1 LKQNGGNFSL 10
```

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2782304 seqs, 489333398 residues

Total number of hits satisfying chosen parameters: 2782304

```
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
```

```
Post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 1000 summaries
```

```
Database :      A_Geneseq_200701:*
1:  geneseqp1980s:*
2:  geneseqp1990s:*
3:  geneseqp2000s:*
4:  geneseqp2001s:*
5:  geneseqp2002s:*
6:  geneseqp2003as:*
7:  geneseqp2003bs:*
8:  geneseqp2004s:*
9:  geneseqp2005s:*
10: geneseqp2006s:*
11: geneseqp2007s:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	52	100.0	10	8	ADR42893	Adr42893 Denatured
2	52	100.0	12	8	ADR42895	Adr42895 Denatured
3	52	100.0	12	8	ADR42894	Adr42894 Denatured
4	52	100.0	12	10	AEK49742	Aek49742 Collagen
5	52	100.0	12	10	AEK49741	Aek49741 Collagen
6	52	100.0	17	10	AEK49743	Aek49743 Collagen
7	52	100.0	18	8	ADR42896	Adr42896 Denatured
8	40	76.9	391	9	ADY61962	Ady61962 P_fragi f
9	39	75.0	226	6	ABU22353	Abu22353 Protein e
10	39	75.0	636	6	ABU41842	Abu41842 Protein e
11	38	73.1	247	3	AAG29300	Aag29300 Arabidops
12	38	73.1	248	3	AAG29299	Aag29299 Arabidops
13	38	73.1	261	8	ADX73721	Adx73721 Plant ful
14	38	73.1	377	7	ABM74358	Abm74358 DNA clone
15	38	73.1	377	10	AEI59807	Aei59807 Soybean p
16	38	73.1	378	7	ABG75208	Abg75208 A sativa
17	38	73.1	378	9	AEA21699	Aea21699 A. sativa
18	38	73.1	380	9	AEA21700	Aea21700 A. thalia
19	38	73.1	386	8	ADJ26803	Adj26803 Arabidops
20	38	73.1	387	3	AAB19413	Aab19413 A straigh
21	38	73.1	387	3	AAG29298	Aag29298 Arabidops
22	38	73.1	387	5	ABB92626	Abb92626 Herbicida
23	38	73.1	387	5	ABB81706	Abb81706 Arabidops
24	38	73.1	387	5	AAU72776	Aau72776 Arabidops
25	38	73.1	387	9	AEA21697	Aea21697 A. thalia
26	38	73.1	445	6	ABU26371	Abu26371 Protein e
27	38	73.1	562	6	AAE14867	Aae14867 S. clavul
28	37	71.2	383	6	ABU41606	Abu41606 Protein e
29	37	71.2	391	10	AEJ59518	Aej59518 Acetyl-Co
30	37	71.2	409	8	ADS24857	Ads24857 Bacterial
31	37	71.2	494	7	ABG75052	Abg75052 Human can
32	37	71.2	591	3	AAY57045	Aay57045 BASB029 a
33	37	71.2	900	4	AAB62552	Aab62552 Novel hum
34	37	71.2	1063	4	AAB62549	Aab62549 Novel hum
35	37	71.2	1216	4	AAB62558	Aab62558 Novel hum
36	37	71.2	1238	5	AAO19017	Aao19017 Human nov
37	37	71.2	1331	5	AAE22722	Aae22722 Human ade
38	37	71.2	1345	5	AAE28957	Aae28957 Human MRP
39	37	71.2	1347	5	ABG61895	Abg61895 Prostate
40	37	71.2	1347	7	ADN38788	Adn38788 Cancer/an
41	37	71.2	1347	7	ADN39573	Adn39573 Cancer/an
42	37	71.2	1360	5	AAM51155	Aam51155 Human ATP
43	37	71.2	1379	4	AAB62555	Aab62555 Novel hum
44	37	71.2	1382	5	AAE29081	Aae29081 Human ABC
45	37	71.2	1382	5	ABJ05559	Abj05559 Breast ca
46	37	71.2	1382	7	ABG75049	Abg75049 Human can
47	37	71.2	1382	7	ABG75050	Abg75050 Human can
48	37	71.2	1382	7	ADN38786	Adn38786 Cancer/an
49	37	71.2	1382	8	ADL06548	Adl06548 Human tum
50	37	71.2	1382	9	AEF53877	Aef53877 Human ATP
51	37	71.2	1382	9	AEF53876	Aef53876 Human ATP
52	37	71.2	1464	2	AAW14920	Aaw14920 Berolina
53	37	71.2	1464	2	AAW18792	Aaw18792 Starch bi
54	37	71.2	1464	2	AAW64229	Aaw64229 Potato st
55	37	71.2	1464	2	AAW43630	Aay43630 Amino aci

56	37	71.2	1464	5	AAU99676	Aau99676	Potato st
57	37	71.2	1464	6	AAE33546	Aae33546	Potato R1
58	37	71.2	1464	7	ABR82880	Abr82880	S. tubero
59	37	71.2	1464	9	AED14809	Aed14809	Potato R1
60	37	71.2	1724	3	AA54373	Aay54373	cDNA sequ
61	37	71.2	1724	4	AAB51022	Aab51022	Human min
62	37	71.2	1724	7	ADB46006	Adb46006	Human min
63	37	71.2	1724	7	ADD09004	Add09004	Human min
64	37	71.2	1724	8	ADR67222	Adr67222	Human bla
65	37	71.2	1724	8	ADS17664	Ads17664	Human pol
66	37	71.2	1730	4	AAU33242	Aau33242	Novel hum
67	37	71.2	1736	8	ADS17713	Ads17713	Cysteine
68	37	71.2	1820	8	ADS17717	Ads17717	GAL4 pept
69	37	71.2	1854	8	ADS17725	Ads17725	MS2 pepti
70	37	71.2	1961	8	ADS17721	Ads17721	Green flu
71	37	71.2	2274	8	ADS17731	Ads17731	Luciferas
72	36	69.2	296	4	ABG16410	Abg16410	Novel hum
73	36	69.2	349	6	ADA36030	Ada36030	Acinetoba
74	36	69.2	407	5	ABB92968	Abb92968	Herbicida
75	36	69.2	631	8	ADS23227	Ads23227	Bacterial
76	35	67.3	108	4	AAO10816	Aao10816	Human pol
77	35	67.3	117	8	ADN47888	Adn47888	Thermococ
78	35	67.3	184	5	ABB53340	Abb53340	Lactococc
79	35	67.3	241	4	ABB66203	Abb66203	Drosophil
80	35	67.3	245	2	AAY27201	Aay27201	Amino aci
81	35	67.3	267	3	AAG59780	Aag59780	Arabidops
82	35	67.3	294	3	AAG59779	Aag59779	Arabidops
83	35	67.3	308	8	ADS42534	Ads42534	Bacterial
84	35	67.3	324	3	AAB19419	Aab19419	A prenlyt
85	35	67.3	324	5	ABB81711	Abb81711	Synechocy
86	35	67.3	324	5	AAU72781	Aau72781	Synechocy
87	35	67.3	324	8	ADJ26726	Adj26726	Synechocy
88	35	67.3	324	8	ADN20151	Adn20151	Bacterial
89	35	67.3	328	5	ABB94274	Abb94274	Chlamydia
90	35	67.3	328	8	ADS29840	Ads29840	Bacterial
91	35	67.3	334	6	ABU15162	Abu15162	Protein e
92	35	67.3	334	8	ADK13777	Adk13777	E. coli i
93	35	67.3	334	8	ADS45248	Ads45248	Bacterial
94	35	67.3	335	2	AAY35684	Aay35684	Chlamydia
95	35	67.3	342	7	ADF04117	Adf04117	Bacterial
96	35	67.3	377	7	ABO84220	Abo84220	Pseudomon
97	35	67.3	426	6	ABU18614	Abu18614	Protein e
98	35	67.3	433	6	ADB12523	Adb12523	Alloiococ
99	35	67.3	463	6	ABU26643	Abu26643	Protein e
100	35	67.3	466	8	ADX88266	Adx88266	Plant ful
101	35	67.3	530	6	ADB12521	Adb12521	Alloiococ
102	35	67.3	556	2	AAY34578	Aay34578	Porphyorm
103	35	67.3	563	2	AAY34435	Aay34435	Porphyorm
104	35	67.3	568	4	ABB47267	Abb47267	Enterococ
105	35	67.3	572	6	ADB12519	Adb12519	Alloiococ
106	35	67.3	574	6	ADB12517	Adb12517	Alloiococ
107	35	67.3	575	7	ADC97113	Adc97113	E. faeciu
108	35	67.3	575	7	ADH87593	Adh87593	Enterococ
109	35	67.3	591	2	AAY27202	Aay27202	Amino aci
110	35	67.3	591	2	AAY23741	Aay23741	A surface
111	35	67.3	591	2	AAY23746	Aay23746	A surface
112	35	67.3	591	4	AAU06175	Aau06175	N. mening
113	35	67.3	591	4	AAU06171	Aau06171	N. mening
114	35	67.3	592	2	AAY23737	Aay23737	A surface
115	35	67.3	611	5	ABB53567	Abb53567	Lactococc
116	35	67.3	611	8	ADS29283	Ads29283	Bacterial

117	35	67.3	738	9	AEB37628	Aeb37628	L. pneumo
118	35	67.3	738	9	AEB40941	Aeb40941	L. pneumo
119	35	67.3	775	9	ADW18268	Adw18268	Eucalyptu
120	35	67.3	777	9	ADW18263	Adw18263	Eucalyptu
121	35	67.3	997	8	ADN88620	Adn88620	Rat epidi
122	35	67.3	1013	8	ADN88594	Adn88594	Rat epidi
123	35	67.3	1016	8	ADN88619	Adn88619	Rat epidi
124	35	67.3	1032	8	ADN88618	Adn88618	Rat epidi
125	35	67.3	1139	8	ADR73937	Adr73937	Human man
126	35	67.3	1139	9	AEB71164	Aeb71164	Alpha-man
127	35	67.3	1180	4	AAU32658	Aau32658	Novel hum
128	35	67.3	1279	8	ADR73931	Adr73931	Rat manno
129	35	67.3	1411	7	ADL11925	Adl11925	Protein o
130	35	67.3	2017	4	AAU32654	Aau32654	Novel hum
131	35	67.3	2202	4	AAU32655	Aau32655	Novel hum
132	34	65.4	18	7	ADD26188	Add26188	Peptide r
133	34	65.4	39	4	ABG30174	Abg30174	Novel hum
134	34	65.4	56	4	AAM95720	Aam95720	Human rep
135	34	65.4	66	9	AEB42033	Aeb42033	L. pneumo
136	34	65.4	88	9	AEE02509	Aee02509	Human her
137	34	65.4	89	9	AEE02643	Aee02643	Human her
138	34	65.4	125	7	ADC95575	Adc95575	E. faeciu
139	34	65.4	139	6	ABM73262	Abm73262	Staphyloc
140	34	65.4	204	8	ADJ98192	Adj98192	Rickettsi
141	34	65.4	307	4	AAB93672	Aab93672	Human pro
142	34	65.4	335	8	ADY12876	Ady12876	Plant ful
143	34	65.4	425	7	ABM88492	Abm88492	Rice abio
144	34	65.4	526	8	ADP74038	Adp74038	Murine CY
145	34	65.4	537	7	ADF04444	Adf04444	Bacterial
146	34	65.4	551	8	ADX74116	Adx74116	Plant ful
147	34	65.4	575	2	AAW58856	Aaw58856	C. acidiv
148	34	65.4	600	9	AEC57320	Aec57320	L. acidop
149	34	65.4	1272	7	ADD14124	Add14124	Human src
150	34	65.4	1531	7	AEJ43940	Aej43940	A. actino
151	34	65.4	1531	8	ADO57586	Ado57586	Actinobac
152	34	65.4	1531	10	AEJ26921	Aej26921	A. actino
153	34	65.4	1756	8	ADN47108	Adn47108	Thermococ
154	34	65.4	1901	5	ABP62935	Abp62935	Human pol
155	34	65.4	2197	8	ADK16573	Adk16573	Nanoarcha
156	33.5	64.4	272	3	AAB25486	Aab25486	Eucalyptu
157	33.5	64.4	416	3	AAB25562	Aab25562	Eucalyptu
158	33.5	64.4	2022	6	ABR63232	Abr63232	Glucansuc
159	33	63.5	54	5	ABP11251	Abp11251	Human ORF
160	33	63.5	86	8	ADY23393	Ady23393	Plant ful
161	33	63.5	122	2	AAV00976	Aay00976	CRCA-1 pr
162	33	63.5	135	6	ABU47521	Abu47521	Protein e
163	33	63.5	135	6	ABU45000	Abu45000	Protein e
164	33	63.5	142	2	AAV00975	Aay00975	CRCA-1 pr
165	33	63.5	156	7	ABO63282	Abo63282	Klebsiell
166	33	63.5	166	2	AAV00974	Aay00974	CRCA-1 pr
167	33	63.5	184	7	ABM89930	Abm89930	Rice abio
168	33	63.5	217	7	ADF07895	Adf07895	Bacterial
169	33	63.5	236	8	ADL05807	Adl05807	M. catarr
170	33	63.5	260	5	ABP27465	Abp27465	Streptoco
171	33	63.5	281	3	AAB25480	Aab25480	Eucalyptu
172	33	63.5	297	4	AAG73555	Aag73555	Human col
173	33	63.5	328	3	AAG16118	Aag16118	Arabidops
174	33	63.5	334	6	ABU32031	Abu32031	Protein e
175	33	63.5	341	2	AAW47430	Aaw47430	Amino aci
176	33	63.5	341	8	ADX80093	Adx80093	Plant ful
177	33	63.5	342	7	ABO62144	Abo62144	Klebsiell

178	33	63.5	354	2	AAAY35540	Aay35540 Chlamydia
179	33	63.5	450	9	ADY60929	Ady60929 Abiotic s
180	33	63.5	468	8	ADV87930	Adv87930 Streptoco
181	33	63.5	468	8	ADV79183	Adv79183 Streptoco
182	33	63.5	468	8	ADV81379	Adv81379 Streptoco
183	33	63.5	474	7	ADM25999	Adm25999 Hyperther
184	33	63.5	480	10	AEJ37054	Aej37054 P. tricho
185	33	63.5	482	3	AAAY51648	Aay51648 Methanoba
186	33	63.5	482	3	AAAY52019	Aay52019 M. thermo
187	33	63.5	483	2	ADF77613	Adf77613 AKT-2 pro
188	33	63.5	483	3	AAB06175	Aab06175 Caenorhab
189	33	63.5	498	6	ABU23945	Abu23945 Protein e
190	33	63.5	499	4	AAG84923	Aag84923 Shrimp wh
191	33	63.5	528	8	ADN24336	Adn24336 Bacterial
192	33	63.5	528	8	ADN24335	Adn24335 Bacterial
193	33	63.5	537	2	AAW34562	Aaw34562 Bankia go
194	33	63.5	537	2	AAW49866	Aaw49866 Bankia go
195	33	63.5	537	7	ADC26914	Adc26914 Bankia go
196	33	63.5	537	7	ADE93810	Ade93810 B. gouldi
197	33	63.5	537	8	ADR51247	Adr51247 Anti-biof
198	33	63.5	619	10	AEE48723	Aee48723 Human GUC
199	33	63.5	630	8	ABO84653	Abo84653 Mouse can
200	33	63.5	635	2	AAW23298	Aaw23298 Aspergill
201	33	63.5	635	9	AEC46260	Aec46260 A. niger
202	33	63.5	635	10	AEF19274	Aef19274 Aspergill
203	33	63.5	635	10	AEF19273	Aef19273 Aspergill
204	33	63.5	725	4	AAAY72914	Aay72914 E. coli i
205	33	63.5	725	9	AED09975	Aed09975 Pathogeni
206	33	63.5	725	9	AED09824	Aed09824 Pathogeni
207	33	63.5	756	6	ABU23683	Abu23683 Protein e
208	33	63.5	827	3	AAB25540	Aab25540 Eucalyptu
209	33	63.5	887	4	ABG03067	Abg03067 Novel hum
210	33	63.5	905	4	AAB72284	Aab72284 Murine AD
211	33	63.5	906	8	ADU25480	Adu25480 L. acidop
212	33	63.5	1070	8	ADO78099	Ado78099 Human gua
213	33	63.5	1070	10	AEE48635	Aee48635 Human GUC
214	33	63.5	1073	2	AAW32063	Aaw32063 Human ST
215	33	63.5	1073	2	AAW37371	Aaw37371 Human ST
216	33	63.5	1073	5	AAU08788	Aau08788 Human gua
217	33	63.5	1073	6	ADA83736	Ada83736 Human GUC
218	33	63.5	1073	8	ADO78096	Ado78096 Human gua
219	33	63.5	1073	10	AEE48632	Aee48632 Human GUC
220	33	63.5	1215	5	ABP63100	Abp63100 FLO11 gen
221	33	63.5	1244	5	ABP63138	Abp63138 Fungal ge
222	33	63.5	1322	8	ABO84654	Abo84654 Mouse can
223	33	63.5	1409	3	AAG53125	Aag53125 Arabidops
224	33	63.5	1420	3	AAG53124	Aag53124 Arabidops
225	33	63.5	1427	9	ADX07773	Adx07773 Cyclin-de
226	33	63.5	1481	6	ABM70381	Abm70381 Photorhab
227	33	63.5	1532	2	AAAY27231	Aay27231 Amino aci
228	33	63.5	1978	2	AAAY27230	Aay27230 Amino aci
229	33	63.5	1981	2	AAW42634	Aaw42634 Protein s
230	33	63.5	2015	5	ABB78067	Abb78067 Amino aci
231	33	63.5	2015	6	ABU37848	Abu37848 Protein e
232	33	63.5	2015	9	AEB91664	Aeb91664 Microbial
233	33	63.5	2292	9	AEB96742	Aeb96742 Human IGF
234	32	61.5	72	5	ABB54028	Abb54028 Lactococc
235	32	61.5	94	9	AED82200	Aed82200 Hyperimmu
236	32	61.5	94	9	AED83054	Aed83054 Hyperimmu
237	32	61.5	113	7	ADG10457	Adg10457 Human STA
238	32	61.5	114	8	ADS14935	Ads14935 Pseudomon

239	32	61.5	125	5	ABP52181	Abp52181 Human mon
240	32	61.5	125	10	AEG47712	Aeg47712 Hepatitis
241	32	61.5	126	3	AAy65408	Aay65408 Human 5'
242	32	61.5	126	8	ADU72972	Adu72972 Signal pe
243	32	61.5	126	9	ADZ73963	Adz73963 Human com
244	32	61.5	169	4	AAG75548	Aag75548 Human col
245	32	61.5	190	5	AAE15458	Aae15458 Intimin-r
246	32	61.5	190	6	AAG79637	Aag79637 H. alvei
247	32	61.5	193	7	ABO75973	Abo75973 Pseudomon
248	32	61.5	201	7	ADF05316	Adf05316 Bacterial
249	32	61.5	206	7	ABO65612	Abo65612 Klebsiell
250	32	61.5	221	6	ABU35378	Abu35378 Protein e
251	32	61.5	222	8	ADT50989	Adt50989 Cancer re
252	32	61.5	226	8	ADL06101	Adl06101 M. catarr
253	32	61.5	233	2	AAW22986	Aaw22986 Human ser
254	32	61.5	240	3	AAB23166	Aab23166 Human col
255	32	61.5	241	8	ADT50988	Adt50988 Cancer re
256	32	61.5	248	5	ABB47779	Abb47779 Listeria
257	32	61.5	279	6	ABU40429	Abu40429 Protein e
258	32	61.5	281	7	ADC95031	Adc95031 E. faeciu
259	32	61.5	292	5	AAG78578	Aag78578 Protease
260	32	61.5	294	6	ADA36239	Ada36239 Acinetoba
261	32	61.5	301	7	ADJ69831	Adj69831 Human hea
262	32	61.5	315	4	AAB60367	Aab60367 Xenopus l
263	32	61.5	315	6	AAO30937	Aao30937 Frog aton
264	32	61.5	317	4	AAM25633	Aam25633 Human pro
265	32	61.5	334	7	ADF59077	Adf59077 Human pol
266	32	61.5	342	6	ABM68211	Abm68211 Photorhab
267	32	61.5	342	8	ADX96073	Adx96073 Plant ful
268	32	61.5	358	6	ABP80220	Abp80220 N. gonorr
269	32	61.5	364	4	ABG27079	Abg27079 Novel hum
270	32	61.5	370	5	ABB90923	Abb90923 Herbicida
271	32	61.5	380	4	AAU35656	Aau35656 Haemophil
272	32	61.5	380	6	ABU38123	Abu38123 Protein e
273	32	61.5	380	6	ABU30613	Abu30613 Protein e
274	32	61.5	381	8	ADS42807	Ads42807 Bacterial
275	32	61.5	387	10	AEG65289	Aeg65289 Recombina
276	32	61.5	391	8	ADU91837	Adu91837 Ovr115 ex
277	32	61.5	391	9	AEA10748	Aea10748 Mutated h
278	32	61.5	398	9	ADY30507	Ady30507 Human spl
279	32	61.5	399	9	ADW04410	Adw04410 Human Ova
280	32	61.5	403	3	AAB58351	Aab58351 Lung canc
281	32	61.5	405	6	ABU04937	Abu04937 Human exp
282	32	61.5	405	6	ABU04916	Abu04916 Human exp
283	32	61.5	406	5	AAG79358	Aag79358 CJA8 sequ
284	32	61.5	417	8	ADI45281	Adi45281 Rice isop
285	32	61.5	420	6	ABU56625	Abu56625 Lung canc
286	32	61.5	420	7	ADN38816	Adn38816 Cancer/an
287	32	61.5	423	4	AAE06944	Aae06944 Human tra
288	32	61.5	423	6	ABG72428	Abg72428 Human col
289	32	61.5	423	6	ABU04923	Abu04923 Human exp
290	32	61.5	423	6	ABU04919	Abu04919 Human exp
291	32	61.5	423	6	ABU04918	Abu04918 Human exp
292	32	61.5	423	6	ABR82508	Abr82508 Human tra
293	32	61.5	423	7	ADE48027	Ade48027 Human CJA
294	32	61.5	423	7	ADI10408	Adi10408 Human cel
295	32	61.5	423	8	ADG08801	Adg08801 Transmemb
296	32	61.5	423	8	ADJ46932	Adj46932 Human tra
297	32	61.5	423	8	ADR48220	Adr48220 Human typ
298	32	61.5	426	6	ABU26778	Abu26778 Protein e
299	32	61.5	428	2	AAy35302	Aay35302 Amino aci

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300	32	61.5	428	5	ABG96430	Abg96430	Human ova
301	32	61.5	428	6	ABR92154	Abr92154	Human cer
302	32	61.5	432	3	AAy99417	Aay99417	Human PRO
303	32	61.5	432	4	AAB66166	Aab66166	Protein o
304	32	61.5	432	4	AAU29188	Aau29188	Human PRO
305	32	61.5	432	4	AAB87581	Aab87581	Human PRO
306	32	61.5	432	5	ABG95906	Abg95906	Human sec
307	32	61.5	432	5	AAU76535	Aau76535	Tumour-as
308	32	61.5	432	6	ABU58564	Abu58564	Human PRO
309	32	61.5	432	6	ABU88112	Abu88112	Novel hum
310	32	61.5	432	6	ABU84427	Abu84427	Human sec
311	32	61.5	432	6	ABR66301	Abr66301	Human sec
312	32	61.5	432	6	ABR65691	Abr65691	Human sec
313	32	61.5	432	6	ABU99631	Abu99631	Human sec
314	32	61.5	432	6	ABU82870	Abu82870	Human PRO
315	32	61.5	432	6	ABU89991	Abu89991	Novel hum
316	32	61.5	432	6	ABR68240	Abr68240	Human sec
317	32	61.5	432	6	ABU96293	Abu96293	Novel hum
318	32	61.5	432	6	ABU92724	Abu92724	Human sec
319	32	61.5	432	6	ABO08801	Abo08801	Human sec
320	32	61.5	432	6	ABO02853	Abo02853	Human sec
321	32	61.5	432	6	ABR75007	Abr75007	Human sec
322	32	61.5	432	6	ABR94769	Abr94769	Human sec
323	32	61.5	432	6	ABU85742	Abu85742	Human PRO
324	32	61.5	432	6	ABU98902	Abu98902	Novel hum
325	32	61.5	432	6	ABU98117	Abu98117	Novel hum
326	32	61.5	432	6	ABU91823	Abu91823	Novel hum
327	32	61.5	432	6	ABU89516	Abu89516	Human PRO
328	32	61.5	432	6	ABU86357	Abu86357	Human sec
329	32	61.5	432	6	ABU67570	Abu67570	Human sec
330	32	61.5	432	6	ABU80598	Abu80598	Human PRO
331	32	61.5	432	6	ABU90931	Abu90931	Novel hum
332	32	61.5	432	6	ABO33990	Abo33990	Human sec
333	32	61.5	432	6	ABR99516	Abr99516	Human sec
334	32	61.5	432	6	ABR98906	Abr98906	Human sec
335	32	61.5	432	6	ABO16429	Abo16429	Human sec
336	32	61.5	432	6	ABR92329	Abr92329	Human sec
337	32	61.5	432	6	ABO18970	Abo18970	Human sec
338	32	61.5	432	6	ABR78391	Abr78391	Human sec
339	32	61.5	432	6	ABU72007	Abu72007	Novel hum
340	32	61.5	432	6	ABU85127	Abu85127	Novel hum
341	32	61.5	432	6	ABO00266	Abo00266	Novel hum
342	32	61.5	432	6	ABO11598	Abo11598	Human sec
343	32	61.5	432	6	ABO02243	Abo02243	Human sec
344	32	61.5	432	6	ABU88817	Abu88817	Novel hum
345	32	61.5	432	6	ABU83512	Abu83512	Human sec
346	32	61.5	432	6	ABO06313	Abo06313	Novel hum
347	32	61.5	432	6	ABR59349	Abr59349	Human sec
348	32	61.5	432	6	ABO09411	Abo09411	Human sec
349	32	61.5	432	6	ABO19275	Abo19275	Novel hum
350	32	61.5	432	6	ABO11293	Abo11293	Human sec
351	32	61.5	432	6	ABR66911	Abr66911	Human sec
352	32	61.5	432	6	ABO16124	Abo16124	Human sec
353	32	61.5	432	6	ABO13830	Abo13830	Human sec
354	32	61.5	432	6	ABU71561	Abu71561	Human sec
355	32	61.5	432	6	ABU65733	Abu65733	Human sec
356	32	61.5	432	6	ABO07581	Abo07581	Human PRO
357	32	61.5	432	6	ABO03768	Abo03768	Human sec
358	32	61.5	432	6	ABR67216	Abr67216	Human sec
359	32	61.5	432	6	ABO15819	Abo15819	Human sec
360	32	61.5	432	6	ABU56100	Abu56100	Human sec

361	32	61.5	432	6	ABU72342	Abu72342	Human	PRO
362	32	61.5	432	6	ABU65428	Abu65428	Human	PRO
363	32	61.5	432	6	ABU95373	Abu95373	Novel	hum
364	32	61.5	432	6	ABU71276	Abu71276	Human	PRO
365	32	61.5	432	6	ABO07886	Abo07886	Human	PRO
366	32	61.5	432	6	ABR70127	Abr70127	Human	sec
367	32	61.5	432	6	ABR69460	Abr69460	Human	sec
368	32	61.5	432	6	ABO01601	Abo01601	Human	PRO
369	32	61.5	432	6	ABU81403	Abu81403	Human	PRO
370	32	61.5	432	6	ABR60200	Abr60200	Human	sec
371	32	61.5	432	6	ABU91015	Abu91015	Human	PRO
372	32	61.5	432	6	ABR67935	Abr67935	Human	sec
373	32	61.5	432	6	ABR65323	Abr65323	Human	sec
374	32	61.5	432	6	ABR68545	Abr68545	Human	sec
375	32	61.5	432	6	ABR71957	Abr71957	Human	sec
376	32	61.5	432	6	ABU85437	Abu85437	Human	PRO
377	32	61.5	432	6	ABU89127	Abu89127	Human	sec
378	32	61.5	432	6	ABU83207	Abu83207	Human	sec
379	32	61.5	432	6	ABU95063	Abu95063	Novel	hum
380	32	61.5	432	6	ABU90611	Abu90611	Novel	hum
381	32	61.5	432	6	ABU84122	Abu84122	Human	sec
382	32	61.5	432	6	ABU93773	Abu93773	Novel	hum
383	32	61.5	432	6	ABR65018	Abr65018	Human	sec
384	32	61.5	432	6	ABO27336	Abo27336	Human	sec
385	32	61.5	432	6	ABR68850	Abr68850	Human	sec
386	32	61.5	432	6	ABO06666	Abo06666	Human	sec
387	32	61.5	432	6	ABR99211	Abr99211	Human	sec
388	32	61.5	432	6	ABU57095	Abu57095	Human	PRO
389	32	61.5	432	6	ABU86047	Abu86047	Novel	hum
390	32	61.5	432	6	ABU82334	Abu82334	Novel	hum
391	32	61.5	432	6	ABU87345	Abu87345	Human	PRO
392	32	61.5	432	6	ABU83817	Abu83817	Human	sec
393	32	61.5	432	6	ABO08191	Abo08191	Human	PRO
394	32	61.5	432	6	ABU92531	Abu92531	Human	sec
395	32	61.5	432	6	ABU81902	Abu81902	Novel	hum
396	32	61.5	432	6	ABU66066	Abu66066	Novel	hum
397	32	61.5	432	6	ABU81201	Abu81201	Human	sec
398	32	61.5	432	6	ABR59895	Abr59895	Human	sec
399	32	61.5	432	6	ABU94083	Abu94083	Novel	hum
400	32	61.5	432	6	ABU99936	Abu99936	Novel	hum
401	32	61.5	432	6	ABR66606	Abr66606	Human	sec
402	32	61.5	432	6	ABR91024	Abr91024	Human	sec
403	32	61.5	432	6	ABO53315	Abo53315	Novel	hum
404	32	61.5	432	6	ABU94451	Abu94451	Human	PRO
405	32	61.5	432	6	ABU79333	Abu79333	Human	PRO
406	32	61.5	432	6	ABU86662	Abu86662	Human	sec
407	32	61.5	432	6	ABU86967	Abu86967	Novel	hum
408	32	61.5	432	6	ABU94756	Abu94756	Human	PRO
409	32	61.5	432	6	ABO04683	Abo04683	Human	PRO
410	32	61.5	432	6	ABR70432	Abr70432	Human	sec
411	32	61.5	432	6	ABU98597	Abu98597	Human	PRO
412	32	61.5	432	6	ABR65996	Abr65996	Human	sec
413	32	61.5	432	6	ABR64713	Abr64713	Human	sec
414	32	61.5	432	6	ABU04929	Abu04929	Human	exp
415	32	61.5	432	6	ABU04934	Abu04934	Human	exp
416	32	61.5	432	6	ABU04921	Abu04921	Human	exp
417	32	61.5	432	6	ABU79638	Abu79638	Human	PRO
418	32	61.5	432	6	ABU93029	Abu93029	Human	sec
419	32	61.5	432	6	ABU95988	Abu95988	Human	PRO
420	32	61.5	432	6	ABU91208	Abu91208	Novel	hum
421	32	61.5	432	6	ABU90301	Abu90301	Novel	hum

422	32	61.5	432	6	ABO09716	Abo09716	Human	sec
423	32	61.5	432	6	ABO10988	Abo10988	Human	sec
424	32	61.5	432	6	ABR71042	Abr71042	Human	sec
425	32	61.5	432	6	ABU98318	Abu98318	Novel	hum
426	32	61.5	432	6	ABU87650	Abu87650	Human	PRO
427	32	61.5	432	6	ABU91518	Abu91518	Human	PRO
428	32	61.5	432	6	ABU89323	Abu89323	Novel	hum
429	32	61.5	432	6	ABU84732	Abu84732	Human	sec
430	32	61.5	432	6	ABR69822	Abr69822	Human	sec
431	32	61.5	432	6	ABU80199	Abu80199	Human	PRO
432	32	61.5	432	6	ABU82530	Abu82530	Novel	hum
433	32	61.5	432	6	ABU93468	Abu93468	Human	PRO
434	32	61.5	432	6	ABO10021	Abo10021	Human	sec
435	32	61.5	432	6	ABO09106	Abo09106	Human	sec
436	32	61.5	432	6	ABU96494	Abu96494	Human	PRO
437	32	61.5	432	6	ABU10674	Abu10674	Human	sec
438	32	61.5	432	6	ABU72164	Abu72164	Human	PRO
439	32	61.5	432	6	ABU95683	Abu95683	Human	PRO
440	32	61.5	432	6	ABU96892	Abu96892	Novel	hum
441	32	61.5	432	6	ABR70737	Abr70737	Human	sec
442	32	61.5	432	6	ABO05088	Abo05088	Novel	hum
443	32	61.5	432	6	ABO08496	Abo08496	Human	sec
444	32	61.5	432	6	ABO05703	Abo05703	Human	sec
445	32	61.5	432	6	ABR74092	Abr74092	Human	sec
446	32	61.5	432	6	ABR95684	Abr95684	Human	sec
447	32	61.5	432	6	ABR80981	Abr80981	Human	sec
448	32	61.5	432	6	ABR81286	Abr81286	Human	sec
449	32	61.5	432	6	ABM00982	Abm00982	Human	sec
450	32	61.5	432	6	ABR88584	Abr88584	Human	sec
451	32	61.5	432	6	ABM77405	Abm77405	Human	sec
452	32	61.5	432	6	ABO28889	Abo28889	Human	sec
453	32	61.5	432	6	ABO31634	Abo31634	Human	sec
454	32	61.5	432	6	ABM08051	Abm08051	Human	sec
455	32	61.5	432	6	ABO40531	Abo40531	Human	sec
456	32	61.5	432	6	ABO35956	Abo35956	Human	PRO
457	32	61.5	432	6	ABO44095	Abo44095	Human	PRO
458	32	61.5	432	6	ADA78082	Ada78082	Human	sec
459	32	61.5	432	6	ABM24890	Abm24890	Human	sec
460	32	61.5	432	6	ABO03158	Abo03158	Human	sec
461	32	61.5	432	6	ABR90414	Abr90414	Human	sec
462	32	61.5	432	6	ABM17328	Abm17328	Human	sec
463	32	61.5	432	6	ABR95074	Abr95074	Human	sec
464	32	61.5	432	6	ABR95379	Abr95379	Human	sec
465	32	61.5	432	6	ADB17169	Adb17169	Human	tra
466	32	61.5	432	6	ABO21617	Abo21617	Human	sec
467	32	61.5	432	6	ABR97881	Abr97881	Human	sec
468	32	61.5	432	6	ABR87669	Abr87669	Human	sec
469	32	61.5	432	6	ABM77710	Abm77710	Human	sec
470	32	61.5	432	6	ABM27940	Abm27940	Human	sec
471	32	61.5	432	6	ABM06221	Abm06221	Human	sec
472	32	61.5	432	6	ABM03727	Abm03727	Human	sec
473	32	61.5	432	6	ABM35178	Abm35178	Human	sec
474	32	61.5	432	6	ABM26415	Abm26415	Human	sec
475	32	61.5	432	6	ABO48197	Abo48197	Human	sec
476	32	61.5	432	6	ABR92939	Abr92939	Human	sec
477	32	61.5	432	6	ABO24700	Abo24700	Human	sec
478	32	61.5	432	6	ABM11711	Abm11711	Human	sec
479	32	61.5	432	6	ABM02812	Abm02812	Human	sec
480	32	61.5	432	6	ABM16108	Abm16108	Human	sec
481	32	61.5	432	6	ABO27669	Abo27669	Human	sec
482	32	61.5	432	6	ABM29160	Abm29160	Human	sec

483	32	61.5	432	6	ABM07136	Abm07136	Human	sec
484	32	61.5	432	6	ABM21230	Abm21230	Human	sec
485	32	61.5	432	6	ABM09576	Abm09576	Human	sec
486	32	61.5	432	6	ABO41446	Abo41446	Human	sec
487	32	61.5	432	6	ABO36261	Abo36261	Human	PRO
488	32	61.5	432	6	ABO43790	Abo43790	Human	PRO
489	32	61.5	432	6	ABM76490	Abm76490	Human	sec
490	32	61.5	432	6	ABM76186	Abm76186	Human	sec
491	32	61.5	432	6	ABM25805	Abm25805	Human	sec
492	32	61.5	432	6	ABM26110	Abm26110	Human	sec
493	32	61.5	432	6	ABO03463	Abo03463	Human	sec
494	32	61.5	432	6	ABO02548	Abo02548	Human	sec
495	32	61.5	432	6	ABO44294	Abo44294	Human	sec
496	32	61.5	432	6	ABR90719	Abr90719	Human	sec
497	32	61.5	432	6	ABR73787	Abr73787	Human	sec
498	32	61.5	432	6	ABO17039	Abo17039	Human	sec
499	32	61.5	432	6	ABR94464	Abr94464	Human	sec
500	32	61.5	432	6	ABR75971	Abr75971	Human	sec
501	32	61.5	432	6	ABR71347	Abr71347	Human	sec
502	32	61.5	432	6	ABR93244	Abr93244	Human	sec
503	32	61.5	432	6	ABR93549	Abr93549	Human	sec
504	32	61.5	432	6	ABR87974	Abr87974	Human	sec
505	32	61.5	432	6	ABO33659	Abo33659	Novel	hum
506	32	61.5	432	6	ABO27974	Abo27974	Human	sec
507	32	61.5	432	6	ABO30109	Abo30109	Human	sec
508	32	61.5	432	6	ABO33318	Abo33318	Human	PRO
509	32	61.5	432	6	ABM05006	Abm05006	Human	sec
510	32	61.5	432	6	ABM08966	Abm08966	Human	sec
511	32	61.5	432	6	ABO36566	Abo36566	Human	sec
512	32	61.5	432	6	ABO35651	Abo35651	Human	PRO
513	32	61.5	432	6	ABO39616	Abo39616	Human	sec
514	32	61.5	432	6	ABM10491	Abm10491	Human	sec
515	32	61.5	432	6	ABM12016	Abm12016	Human	sec
516	32	61.5	432	6	ABO52162	Abo52162	Human	PRO
517	32	61.5	432	6	ABO52467	Abo52467	Human	PRO
518	32	61.5	432	6	ADA19974	Ada19974	Novel	hum
519	32	61.5	432	6	ABO23785	Abo23785	Human	sec
520	32	61.5	432	6	ADB17357	Adb17357	Human	tra
521	32	61.5	432	6	ABR97271	Abr97271	Human	sec
522	32	61.5	432	6	ABR87059	Abr87059	Human	sec
523	32	61.5	432	6	ABM11101	Abm11101	Human	sec
524	32	61.5	432	6	ABM28245	Abm28245	Human	sec
525	32	61.5	432	6	ABO32244	Abo32244	Human	sec
526	32	61.5	432	6	ABM15371	Abm15371	Human	sec
527	32	61.5	432	6	ABM06526	Abm06526	Human	sec
528	32	61.5	432	6	ABM04337	Abm04337	Human	sec
529	32	61.5	432	6	ABM22450	Abm22450	Human	sec
530	32	61.5	432	6	ABM07746	Abm07746	Human	sec
531	32	61.5	432	6	ABO40836	Abo40836	Human	sec
532	32	61.5	432	6	ABM35483	Abm35483	Human	sec
533	32	61.5	432	6	ABM33246	Abm33246	Human	sec
534	32	61.5	432	6	ABO52772	Abo52772	Human	PRO
535	32	61.5	432	6	ABO50332	Abo50332	Human	sec
536	32	61.5	432	6	ABU99326	Abu99326	Human	sec
537	32	61.5	432	6	ABO04378	Abo04378	Human	sec
538	32	61.5	432	6	ABO06008	Abo06008	Human	sec
539	32	61.5	432	6	ABM18548	Abm18548	Human	sec
540	32	61.5	432	6	ABR97576	Abr97576	Human	sec
541	32	61.5	432	6	ABR80676	Abr80676	Human	sec
542	32	61.5	432	6	ABM01287	Abm01287	Human	sec
543	32	61.5	432	6	ABR88889	Abr88889	Human	sec

544	32	61.5	432	6	ABM13541	Abm13541	Human	sec
545	32	61.5	432	6	ABM20925	Abm20925	Human	sec
546	32	61.5	432	6	ABO42056	Abo42056	Human	sec
547	32	61.5	432	6	ABO42666	Abo42666	Human	sec
548	32	61.5	432	6	ABM10186	Abm10186	Human	sec
549	32	61.5	432	6	ABO38701	Abo38701	Human	sec
550	32	61.5	432	6	ABM32941	Abm32941	Human	sec
551	32	61.5	432	6	ABM22755	Abm22755	Human	sec
552	32	61.5	432	6	ABM74966	Abm74966	Human	sec
553	32	61.5	432	6	ADA79874	Ada79874	Human	sec
554	32	61.5	432	6	ABR96356	Abr96356	Human	sec
555	32	61.5	432	6	ABM02507	Abm02507	Human	sec
556	32	61.5	432	6	ABR86449	Abr86449	Human	sec
557	32	61.5	432	6	ABR86754	Abr86754	Human	sec
558	32	61.5	432	6	ABM16718	Abm16718	Human	sec
559	32	61.5	432	6	ABM29770	Abm29770	Human	sec
560	32	61.5	432	6	ABO29194	Abo29194	Human	sec
561	32	61.5	432	6	ABM23975	Abm23975	Human	sec
562	32	61.5	432	6	ABM23365	Abm23365	Human	sec
563	32	61.5	432	6	ABM22145	Abm22145	Human	sec
564	32	61.5	432	6	ABO37786	Abo37786	Human	sec
565	32	61.5	432	6	ABM28550	Abm28550	Human	sec
566	32	61.5	432	6	ABM28855	Abm28855	Human	sec
567	32	61.5	432	6	ABM66499	Abm66499	Human	sec
568	32	61.5	432	6	ABM75881	Abm75881	Human	sec
569	32	61.5	432	6	ABM34161	Abm34161	Human	sec
570	32	61.5	432	6	ABM34466	Abm34466	Human	sec
571	32	61.5	432	6	ABO20397	Abo20397	Human	sec
572	32	61.5	432	6	ABO21312	Abo21312	Human	sec
573	32	61.5	432	6	ABO22227	Abo22227	Human	sec
574	32	61.5	432	6	ADA20146	Ada20146	Novel	hum
575	32	61.5	432	6	ABO34222	Abo34222	Human	sec
576	32	61.5	432	6	ABR96661	Abr96661	Human	sec
577	32	61.5	432	6	ABR85839	Abr85839	Human	sec
578	32	61.5	432	6	ABR99821	Abr99821	Human	sec
579	32	61.5	432	6	ABM00372	Abm00372	Human	sec
580	32	61.5	432	6	ABM00677	Abm00677	Human	sec
581	32	61.5	432	6	ABO29804	Abo29804	Human	sec
582	32	61.5	432	6	ABM23670	Abm23670	Human	sec
583	32	61.5	432	6	ABM29465	Abm29465	Human	sec
584	32	61.5	432	6	ABO38396	Abo38396	Human	sec
585	32	61.5	432	6	ABO45696	Abo45696	Human	PRO
586	32	61.5	432	6	ABM20620	Abm20620	Human	sec
587	32	61.5	432	6	ADA81601	Ada81601	Human	sec
588	32	61.5	432	6	ABO16734	Abo16734	Human	sec
589	32	61.5	432	6	ABO18360	Abo18360	Human	sec
590	32	61.5	432	6	ABO22787	Abo22787	Human	PRO
591	32	61.5	432	6	ABO23092	Abo23092	Human	PRO
592	32	61.5	432	6	ABR92634	Abr92634	Human	sec
593	32	61.5	432	6	ABR81591	Abr81591	Human	sec
594	32	61.5	432	6	ABM78015	Abm78015	Human	sec
595	32	61.5	432	6	ABR89804	Abr89804	Human	sec
596	32	61.5	432	6	ABM26720	Abm26720	Human	sec
597	32	61.5	432	6	ABM13846	Abm13846	Human	sec
598	32	61.5	432	6	ABO28584	Abo28584	Human	sec
599	32	61.5	432	6	ABO30414	Abo30414	Human	sec
600	32	61.5	432	6	ABM07441	Abm07441	Human	sec
601	32	61.5	432	6	ABM04032	Abm04032	Human	sec
602	32	61.5	432	6	ABO37176	Abo37176	Human	sec
603	32	61.5	432	6	ABO41751	Abo41751	Human	sec
604	32	61.5	432	6	ABO35346	Abo35346	Human	PRO

605	32	61.5	432	6	ABM25195	Abm25195	Human	sec
606	32	61.5	432	6	ABO47587	Abo47587	Human	sec
607	32	61.5	432	6	ABO47892	Abo47892	Human	sec
608	32	61.5	432	6	ABO48502	Abo48502	Human	sec
609	32	61.5	432	6	ABO51552	Abo51552	Human	PRO
610	32	61.5	432	6	ABO51857	Abo51857	Human	PRO
611	32	61.5	432	6	ABO50637	Abo50637	Human	sec
612	32	61.5	432	6	ABR79761	Abr79761	Human	sec
613	32	61.5	432	6	ABM17023	Abm17023	Human	sec
614	32	61.5	432	6	ABO18055	Abo18055	Human	sec
615	32	61.5	432	6	ABO21007	Abo21007	Human	sec
616	32	61.5	432	6	ABR96966	Abr96966	Human	sec
617	32	61.5	432	6	ABM12321	Abm12321	Human	sec
618	32	61.5	432	6	ABM16413	Abm16413	Human	sec
619	32	61.5	432	6	ABM24280	Abm24280	Human	sec
620	32	61.5	432	6	ABM14761	Abm14761	Human	sec
621	32	61.5	432	6	ABM04642	Abm04642	Human	sec
622	32	61.5	432	6	ABM06831	Abm06831	Human	sec
623	32	61.5	432	6	ABM09271	Abm09271	Human	sec
624	32	61.5	432	6	ABO39311	Abo39311	Human	sec
625	32	61.5	432	6	ABM75576	Abm75576	Human	sec
626	32	61.5	432	6	ABM25500	Abm25500	Human	sec
627	32	61.5	432	6	ABM20010	Abm20010	Human	sec
628	32	61.5	432	6	ABO46916	Abo46916	Human	PRO
629	32	61.5	432	6	ABO47221	Abo47221	Human	PRO
630	32	61.5	432	6	ADA83399	Ada83399	Human	sec
631	32	61.5	432	6	ABR71652	Abr71652	Human	sec
632	32	61.5	432	6	ABR72262	Abr72262	Human	sec
633	32	61.5	432	6	ABR98601	Abr98601	Human	sec
634	32	61.5	432	6	ABO06971	Abo06971	Human	sec
635	32	61.5	432	6	ABR84924	Abr84924	Human	sec
636	32	61.5	432	6	ABR73482	Abr73482	Human	sec
637	32	61.5	432	6	ABR76576	Abr76576	Human	sec
638	32	61.5	432	6	ABR73177	Abr73177	Human	sec
639	32	61.5	432	6	ABM18243	Abm18243	Human	sec
640	32	61.5	432	6	ABO20702	Abo20702	Human	sec
641	32	61.5	432	6	ABO25445	Abo25445	Human	PRO
642	32	61.5	432	6	ABO25750	Abo25750	Human	PRO
643	32	61.5	432	6	ABR94159	Abr94159	Human	sec
644	32	61.5	432	6	ABR80066	Abr80066	Human	sec
645	32	61.5	432	6	ABM11406	Abm11406	Human	sec
646	32	61.5	432	6	ABO33013	Abo33013	Human	PRO
647	32	61.5	432	6	ABO30719	Abo30719	Human	sec
648	32	61.5	432	6	ABO31024	Abo31024	Human	sec
649	32	61.5	432	6	ABM27330	Abm27330	Human	sec
650	32	61.5	432	6	ABM30075	Abm30075	Human	sec
651	32	61.5	432	6	ABM05611	Abm05611	Human	sec
652	32	61.5	432	6	ABM15676	Abm15676	Human	sec
653	32	61.5	432	6	ABM08661	Abm08661	Human	sec
654	32	61.5	432	6	ABO42361	Abo42361	Human	sec
655	32	61.5	432	6	ABO38091	Abo38091	Human	sec
656	32	61.5	432	6	ABO46001	Abo46001	Human	PRO
657	32	61.5	432	6	ABM66804	Abm66804	Human	sec
658	32	61.5	432	6	ADB20442	Adb20442	Human	sec
659	32	61.5	432	6	ABM19705	Abm19705	Human	sec
660	32	61.5	432	6	ABO49417	Abo49417	Human	sec
661	32	61.5	432	6	ABO49722	Abo49722	Human	sec
662	32	61.5	432	6	ADA78694	Ada78694	Human	sec
663	32	61.5	432	6	ABR88279	Abr88279	Human	sec
664	32	61.5	432	6	ADA00443	Ada00443	Human	sec
665	32	61.5	432	6	ABM27025	Abm27025	Human	sec

666	32	61.5	432	6	ABM03422	Abm03422	Human	sec
667	32	61.5	432	6	ABO39921	Abo39921	Human	sec
668	32	61.5	432	7	ABO50027	Abo50027	Human	sec
669	32	61.5	432	7	ABO50942	Abo50942	Human	sec
670	32	61.5	432	7	ABO05398	Abo05398	Human	sec
671	32	61.5	432	7	ABR74702	Abr74702	Human	sec
672	32	61.5	432	7	ABO44512	Abo44512	Human	sec
673	32	61.5	432	7	ABR77181	Abr77181	Human	sec
674	32	61.5	432	7	ABM17938	Abm17938	Human	sec
675	32	61.5	432	7	ABR95989	Abr95989	Human	sec
676	32	61.5	432	7	ABO21922	Abo21922	Human	sec
677	32	61.5	432	7	ABO20092	Abo20092	Human	sec
678	32	61.5	432	7	ABO24395	Abo24395	Human	sec
679	32	61.5	432	7	ABR86144	Abr86144	Human	sec
680	32	61.5	432	7	ABM10796	Abm10796	Human	sec
681	32	61.5	432	7	ABM76795	Abm76795	Human	sec
682	32	61.5	432	7	ABR89499	Abr89499	Human	sec
683	32	61.5	432	7	ABM12626	Abm12626	Human	sec
684	32	61.5	432	7	ABM05916	Abm05916	Human	sec
685	32	61.5	432	7	ABO35041	Abo35041	Human	PRO
686	32	61.5	432	7	ABM03117	Abm03117	Human	sec
687	32	61.5	432	7	ABM19095	Abm19095	Human	sec
688	32	61.5	432	7	ABM19400	Abm19400	Human	sec
689	32	61.5	432	7	ABO46611	Abo46611	Human	PRO
690	32	61.5	432	7	ABO49112	Abo49112	Human	sec
691	32	61.5	432	7	ABR69155	Abr69155	Human	sec
692	32	61.5	432	7	ABR89194	Abr89194	Human	sec
693	32	61.5	432	7	ABR72567	Abr72567	Human	sec
694	32	61.5	432	7	ABR74397	Abr74397	Human	sec
695	32	61.5	432	7	ABO18665	Abo18665	Human	sec
696	32	61.5	432	7	ABR80371	Abr80371	Human	sec
697	32	61.5	432	7	ABM01592	Abm01592	Human	sec
698	32	61.5	432	7	ABM02202	Abm02202	Human	sec
699	32	61.5	432	7	ABR87364	Abr87364	Human	sec
700	32	61.5	432	7	ABM12931	Abm12931	Human	sec
701	32	61.5	432	7	ABM30685	Abm30685	Human	sec
702	32	61.5	432	7	ABM24585	Abm24585	Human	sec
703	32	61.5	432	7	ABO29499	Abo29499	Human	sec
704	32	61.5	432	7	ABO31329	Abo31329	Human	sec
705	32	61.5	432	7	ABM14456	Abm14456	Human	sec
706	32	61.5	432	7	ABM09881	Abm09881	Human	sec
707	32	61.5	432	7	ABO39006	Abo39006	Human	sec
708	32	61.5	432	7	ABM34771	Abm34771	Human	sec
709	32	61.5	432	7	ABO51247	Abo51247	Human	sec
710	32	61.5	432	7	ABO04073	Abo04073	Human	sec
711	32	61.5	432	7	ABO10543	Abo10543	Human	PRO
712	32	61.5	432	7	ABR77786	Abr77786	Human	sec
713	32	61.5	432	7	ABR78996	Abr78996	Human	sec
714	32	61.5	432	7	ABO24090	Abo24090	Human	sec
715	32	61.5	432	7	ABR93854	Abr93854	Human	sec
716	32	61.5	432	7	ABM01897	Abm01897	Human	sec
717	32	61.5	432	7	ABM78320	Abm78320	Human	sec
718	32	61.5	432	7	ABO33536	Abo33536	Novel	hum
719	32	61.5	432	7	ABR90109	Abr90109	Human	sec
720	32	61.5	432	7	ABM27635	Abm27635	Human	sec
721	32	61.5	432	7	ABM13236	Abm13236	Human	sec
722	32	61.5	432	7	ABO31939	Abo31939	Human	sec
723	32	61.5	432	7	ABM14151	Abm14151	Human	sec
724	32	61.5	432	7	ABM08356	Abm08356	Human	sec
725	32	61.5	432	7	ABO40226	Abo40226	Human	sec
726	32	61.5	432	7	ABM74661	Abm74661	Human	sec

727	32	61.5	432	7	ABM33856	Abm33856	Human	sec
728	32	61.5	432	7	ABM20315	Abm20315	Human	sec
729	32	61.5	432	7	ABO48807	Abo48807	Human	sec
730	32	61.5	432	7	ABR72872	Abr72872	Human	sec
731	32	61.5	432	7	ABO15514	Abo15514	Human	sec
732	32	61.5	432	7	ABR85229	Abr85229	Human	sec
733	32	61.5	432	7	ABO15209	Abo15209	Human	sec
734	32	61.5	432	7	ABO17344	Abo17344	Human	sec
735	32	61.5	432	7	ABM17633	Abm17633	Human	sec
736	32	61.5	432	7	ABR85534	Abr85534	Human	sec
737	32	61.5	432	7	ABU08890	Abu08890	Tumour-as	
738	32	61.5	432	7	ABM77100	Abm77100	Human	sec
739	32	61.5	432	7	ABO28279	Abo28279	Human	sec
740	32	61.5	432	7	ABM23060	Abm23060	Human	sec
741	32	61.5	432	7	ABM30380	Abm30380	Human	sec
742	32	61.5	432	7	ABM21840	Abm21840	Human	sec
743	32	61.5	432	7	ABM21535	Abm21535	Human	sec
744	32	61.5	432	7	ABM15066	Abm15066	Human	sec
745	32	61.5	432	7	ABO41141	Abo41141	Human	sec
746	32	61.5	432	7	ABO36871	Abo36871	Human	sec
747	32	61.5	432	7	ABO37481	Abo37481	Human	sec
748	32	61.5	432	7	ABM75271	Abm75271	Human	sec
749	32	61.5	432	7	ABM33551	Abm33551	Human	sec
750	32	61.5	432	7	ABO46306	Abo46306	Human	PRO
751	32	61.5	432	7	ADA82765	Ada82765	Human	sec
752	32	61.5	432	7	ADB85685	Adb85685	Novel	hum
753	32	61.5	432	7	ABM31905	Abm31905	Human	sec
754	32	61.5	432	7	ABM31295	Abm31295	Human	sec
755	32	61.5	432	7	ADB86073	Adb86073	Human	sec
756	32	61.5	432	7	ABM32210	Abm32210	Human	sec
757	32	61.5	432	7	ABM32515	Abm32515	Human	sec
758	32	61.5	432	7	ADB68364	Adb68364	Human	PRO
759	32	61.5	432	7	ADB68171	Adb68171	Human	PRO
760	32	61.5	432	7	ABM31600	Abm31600	Human	sec
761	32	61.5	432	7	ABM30990	Abm30990	Human	sec
762	32	61.5	432	7	ADB90988	Adb90988	Novel	hum
763	32	61.5	432	7	ADC07068	Adc07068	Human	PRO
764	32	61.5	432	7	ADC18144	Adc18144	Human	PRO
765	32	61.5	432	7	ADC17247	Adc17247	Mammalian	
766	32	61.5	432	7	ADC14945	Adc14945	Novel	hum
767	32	61.5	432	7	ADC52440	Adc52440	Novel	hum
768	32	61.5	432	7	ADD05803	Add05803	Human	sec
769	32	61.5	432	7	ADD70790	Add70790	Human	sec
770	32	61.5	432	7	ADD39867	Add39867	Human	sec
771	32	61.5	432	7	ADD70313	Add70313	Human	sec
772	32	61.5	432	7	ADD36116	Add36116	Novel	hum
773	32	61.5	432	7	ADD38434	Add38434	Human	sec
774	32	61.5	432	7	ADD39390	Add39390	Human	sec
775	32	61.5	432	7	ADD38913	Add38913	Human	sec
776	32	61.5	432	7	ADD40344	Add40344	Human	sec
777	32	61.5	432	7	ADE50565	Ade50565	Human	sec
778	32	61.5	432	7	ADE20177	Ade20177	Human	sec
779	32	61.5	432	7	ADE50088	Ade50088	Human	sec
780	32	61.5	432	7	ADE21646	Ade21646	Human	sec
781	32	61.5	432	7	ADD89061	Add89061	TAT135.	1
782	32	61.5	432	7	ADF30071	Adf30071	Human	sec
783	32	61.5	432	7	ADF55964	Adf55964	Human	sec
784	32	61.5	432	7	ADG01117	Adg01117	Novel	hum
785	32	61.5	432	7	ADG08670	Adg08670	Novel	hum
786	32	61.5	432	7	ADG02798	Adg02798	Novel	hum
787	32	61.5	432	7	ADG01505	Adg01505	Novel	hum

788	32	61.5	432	7	ADF95680	Adf95680	Novel	hum
789	32	61.5	432	7	ADF95291	Adf95291	Novel	hum
790	32	61.5	432	7	ADG12495	Adg12495	Novel	hum
791	32	61.5	432	7	ADH24144	Adh24144	Novel	hum
792	32	61.5	432	7	ADH34170	Adh34170	Novel	hum
793	32	61.5	432	7	ADH30003	Adh30003	Novel	hum
794	32	61.5	432	7	ADH23974	Adh23974	Novel	hum
795	32	61.5	432	7	ADH09155	Adh09155	Human	PRO
796	32	61.5	432	7	ADG85378	Adg85378	Novel	hum
797	32	61.5	432	7	ADH24654	Adh24654	Novel	hum
798	32	61.5	432	7	ADH37510	Adh37510	Human	sec
799	32	61.5	432	7	ADH02099	Adh02099	Human	PRO
800	32	61.5	432	7	ADH37680	Adh37680	Human	sec
801	32	61.5	432	7	ADG85718	Adg85718	Novel	hum
802	32	61.5	432	7	ADH24314	Adh24314	Novel	hum
803	32	61.5	432	7	ADH38608	Adh38608	Novel	hum
804	32	61.5	432	7	ADG83729	Adg83729	Human	PRO
805	32	61.5	432	7	ADH29537	Adh29537	Novel	hum
806	32	61.5	432	7	ADH27653	Adh27653	Novel	hum
807	32	61.5	432	7	ADH37850	Adh37850	Human	sec
808	32	61.5	432	7	ADH38027	Adh38027	Human	sec
809	32	61.5	432	7	ADH57447	Adh57447	Novel	hum
810	32	61.5	432	7	ADH53589	Adh53589	Novel	hum
811	32	61.5	432	7	ADH53759	Adh53759	Novel	hum
812	32	61.5	432	7	ADH52095	Adh52095	Novel	hum
813	32	61.5	432	7	ADH49950	Adh49950	Novel	hum
814	32	61.5	432	7	ADI25460	Adi25460	Novel	hum
815	32	61.5	432	7	ADH90253	Adh90253	Novel	hum
816	32	61.5	432	7	ADI25630	Adi25630	Novel	hum
817	32	61.5	432	7	ADH97804	Adh97804	Novel	hum
818	32	61.5	432	7	ADH99468	Adh99468	Human	sec
819	32	61.5	432	7	ADI03652	Adi03652	Novel	hum
820	32	61.5	432	7	ADI12009	Adi12009	Human	PRO
821	32	61.5	432	7	ADH90083	Adh90083	Novel	hum
822	32	61.5	432	7	ADH98484	Adh98484	Novel	hum
823	32	61.5	432	7	ADI11159	Adi11159	Human	PRO
824	32	61.5	432	7	ADI11669	Adi11669	Human	PRO
825	32	61.5	432	7	ADH98314	Adh98314	Novel	hum
826	32	61.5	432	7	ADH98654	Adh98654	Novel	hum
827	32	61.5	432	7	ADH98144	Adh98144	Novel	hum
828	32	61.5	432	7	ADI05132	Adi05132	Novel	hum
829	32	61.5	432	7	ADI03482	Adi03482	Novel	hum
830	32	61.5	432	7	ADI04877	Adi04877	Novel	hum
831	32	61.5	432	7	ADH78331	Adh78331	Human	PRO
832	32	61.5	432	7	ADI19675	Adi19675	Novel	hum
833	32	61.5	432	7	ADH90423	Adh90423	Novel	hum
834	32	61.5	432	7	ADI03142	Adi03142	Novel	hum
835	32	61.5	432	7	ADH77991	Adh77991	Human	PRO
836	32	61.5	432	7	ADH97974	Adh97974	Novel	hum
837	32	61.5	432	7	ADI01359	Adi01359	Novel	hum
838	32	61.5	432	7	ADI02054	Adi02054	Novel	hum
839	32	61.5	432	7	ADI03312	Adi03312	Novel	hum
840	32	61.5	432	7	ADI11499	Adi11499	Human	PRO
841	32	61.5	432	7	ADI02401	Adi02401	Novel	hum
842	32	61.5	432	7	ADI11839	Adi11839	Human	PRO
843	32	61.5	432	7	ADI05476	Adi05476	Novel	hum
844	32	61.5	432	7	ADH79548	Adh79548	Novel	hum
845	32	61.5	432	7	ADI19505	Adi19505	Novel	hum
846	32	61.5	432	7	ADI05306	Adi05306	Novel	hum
847	32	61.5	432	7	ADH79718	Adh79718	Novel	hum
848	32	61.5	432	7	ADI01544	Adi01544	Novel	hum

849	32	61.5	432	7	ADI01714	Adi01714	Novel	hum
850	32	61.5	432	7	ADI01884	Adi01884	Novel	hum
851	32	61.5	432	7	ADH79888	Adh79888	Novel	hum
852	32	61.5	432	7	ADI04706	Adi04706	Novel	hum
853	32	61.5	432	7	ADI02842	Adi02842	Novel	hum
854	32	61.5	432	7	ADH78161	Adh78161	Human	PRO
855	32	61.5	432	7	ADI25800	Adi25800	Novel	hum
856	32	61.5	432	7	ADI25970	Adi25970	Novel	hum
857	32	61.5	432	7	ADK65482	Adk65482	Novel	hum
858	32	61.5	432	7	ADH98824	Adh98824	Novel	hum
859	32	61.5	432	7	ADH80065	Adh80065	Novel	hum
860	32	61.5	432	7	ADL32936	Adl32936	Novel	hum
861	32	61.5	432	7	ADM30470	Adm30470	Novel	hum
862	32	61.5	432	7	ADL93795	Adl93795	Novel	hum
863	32	61.5	432	8	ADC52250	Adc52250	Novel	hum
864	32	61.5	432	8	ADE74467	Ade74467	Human	sec
865	32	61.5	432	8	ADE75079	Ade75079	Human	sec
866	32	61.5	432	8	ADE96648	Ade96648	Human	sec
867	32	61.5	432	8	ADF25959	Adf25959	Human	sec
868	32	61.5	432	8	ADF24858	Adf24858	Human	sec
869	32	61.5	432	8	ADF29594	Adf29594	Human	sec
870	32	61.5	432	8	ADE97125	Ade97125	Human	sec
871	32	61.5	432	8	ADF96292	Adf96292	Novel	hum
872	32	61.5	432	8	ADG04563	Adg04563	Novel	hum
873	32	61.5	432	8	ADG00723	Adg00723	Novel	hum
874	32	61.5	432	8	ADH06682	Adh06682	Novel	hum
875	32	61.5	432	8	ADH06512	Adh06512	Novel	hum
876	32	61.5	432	8	ADG68933	Adg68933	Novel	hum
877	32	61.5	432	8	ADH27823	Adh27823	Novel	hum
878	32	61.5	432	8	ADH25164	Adh25164	Novel	hum
879	32	61.5	432	8	ADH33796	Adh33796	Human	PRO
880	32	61.5	432	8	ADG82979	Adg82979	Human	PRO
881	32	61.5	432	8	ADH03163	Adh03163	Human	sec
882	32	61.5	432	8	ADH02439	Adh02439	Human	PRO
883	32	61.5	432	8	ADH08046	Adh08046	Novel	hum
884	32	61.5	432	8	ADG69443	Adg69443	Novel	hum
885	32	61.5	432	8	ADH39263	Adh39263	Novel	hum
886	32	61.5	432	8	ADH04117	Adh04117	Human	sec
887	32	61.5	432	8	ADH03640	Adh03640	Human	sec
888	32	61.5	432	8	ADH26260	Adh26260	Novel	hum
889	32	61.5	432	8	ADG84004	Adg84004	Human	PRO
890	32	61.5	432	8	ADG85548	Adg85548	Novel	hum
891	32	61.5	432	8	ADH06342	Adh06342	Novel	hum
892	32	61.5	432	8	ADH30172	Adh30172	Novel	hum
893	32	61.5	432	8	ADH24484	Adh24484	Novel	hum
894	32	61.5	432	8	ADH33229	Adh33229	Human	PRO
895	32	61.5	432	8	ADG69613	Adg69613	Novel	hum
896	32	61.5	432	8	ADH07876	Adh07876	Novel	hum
897	32	61.5	432	8	ADG85888	Adg85888	Novel	hum
898	32	61.5	432	8	ADH39434	Adh39434	Novel	hum
899	32	61.5	432	8	ADH33626	Adh33626	Human	PRO
900	32	61.5	432	8	ADH33966	Adh33966	Human	PRO
901	32	61.5	432	8	ADH01176	Adh01176	Human	PRO
902	32	61.5	432	8	ADG69783	Adg69783	Novel	hum
903	32	61.5	432	8	ADH02269	Adh02269	Human	PRO
904	32	61.5	432	8	ADG69273	Adg69273	Novel	hum
905	32	61.5	432	8	ADG86058	Adg86058	Novel	hum
906	32	61.5	432	8	ADH24994	Adh24994	Novel	hum
907	32	61.5	432	8	ADH39611	Adh39611	Novel	hum
908	32	61.5	432	8	ADH02609	Adh02609	Human	PRO
909	32	61.5	432	8	ADG69103	Adg69103	Novel	hum

910	32	61.5	432	8	ADH07706	Adh07706	Novel	hum
911	32	61.5	432	8	ADG86228	Adg86228	Novel	hum
912	32	61.5	432	8	ADH24824	Adh24824	Novel	hum
913	32	61.5	432	8	ADH25872	Adh25872	Novel	hum
914	32	61.5	432	8	ADH38438	Adh38438	Novel	hum
915	32	61.5	432	8	ADH57277	Adh57277	Novel	hum
916	32	61.5	432	8	ADH52264	Adh52264	Novel	hum
917	32	61.5	432	8	ADH04594	Adh04594	Human	sec
918	32	61.5	432	8	ADH49630	Adh49630	Novel	hum
919	32	61.5	432	8	ADH90593	Adh90593	Novel	hum
920	32	61.5	432	8	ADI11329	Adi11329	Human	PRO
921	32	61.5	432	8	ADH98994	Adh98994	Novel	hum
922	32	61.5	432	8	ADI02224	Adi02224	Novel	hum
923	32	61.5	432	8	ADH61595	Adh61595	Human	sec
924	32	61.5	432	8	ADH90763	Adh90763	Novel	hum
925	32	61.5	432	8	ADJ54968	Adj54968	Human	PRO
926	32	61.5	432	8	ADJ98638	Adj98638	Novel	hum
927	32	61.5	432	8	ADJ98808	Adj98808	Novel	hum
928	32	61.5	432	8	ADH78967	Adh78967	Novel	hum
929	32	61.5	432	8	ADJ99201	Adj99201	Novel	hum
930	32	61.5	432	8	ADJ99371	Adj99371	Novel	hum
931	32	61.5	432	8	ADJ98989	Adj98989	Novel	hum
932	32	61.5	432	8	ADH79136	Adh79136	Novel	hum
933	32	61.5	432	8	ADK00997	Adk00997	Human	PRO
934	32	61.5	432	8	ADK14518	Adk14518	Novel	hum
935	32	61.5	432	8	ADJ64739	Adj64739	Human	PRO
936	32	61.5	432	8	ADM31635	Adm31635	Novel	hum
937	32	61.5	432	8	ADM36682	Adm36682	Novel	hum
938	32	61.5	432	8	ADM40487	Adm40487	Novel	hum
939	32	61.5	432	8	ADM80967	Adm80967	Human	PRO
940	32	61.5	432	8	ADL94794	Adl94794	Human	sec
941	32	61.5	432	8	ADN38095	Adn38095	Novel	hum
942	32	61.5	432	9	ADY77807	Ady77807	Neoplasti	
943	32	61.5	432	9	AED45181	Aed45181	Human	sec
944	32	61.5	432	9	AED50325	Aed50325	Novel	hum
945	32	61.5	432	10	AEF12638	Aef12638	Human	PRO
946	32	61.5	432	10	AEF74327	Aef74327	Human	PRO
947	32	61.5	432	10	AEG19684	Aeg19684	Human	sec
948	32	61.5	432	10	AEG63017	Aeg63017	Human	sec
949	32	61.5	432	10	AEG72840	Aeg72840	Human	sec

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4	40	76.9	139	2	Q1Y651_STAAU	Q1y651	staphylococ
5	40	76.9	139	2	Q99UZ8_STAAM	Q99uz8	staphylococ
6	40	76.9	139	2	Q7A674_STAAN	Q7a674	staphylococ
7	40	76.9	390	1	FADA_PSEFR	P28790	pseudomonas
8	40	76.9	732	2	Q4D3V5_TRYCR	Q4d3v5	trypanosoma
9	40	76.9	749	2	Q551L7_DICDI	Q551l7	dictyosteli
10	40	76.9	755	2	Q869U9_DICDI	Q869u9	dictyosteli
11	40	76.9	2005	2	Q17JH3_AEDAE	Q17jh3	aedes aegyp
12	39	75.0	226	2	Q63MD8_BURPS	Q63md8	burkholderi
13	39	75.0	226	2	Q62BB4_BURMA	Q62bb4	burkholderi
14	39	75.0	226	2	Q3JG57_BURP1	Q3jg57	burkholderi
15	39	75.0	579	2	Q887F3_PSESM	Q887f3	pseudomonas
16	39	75.0	720	2	O94711_SCHPO	O94711	schizosacch
17	39	75.0	1058	2	Q22C71_TETTH	Q22c71	tetrahymena
18	39	75.0	1593	2	Q5BMR5_CHICK	Q5bmr5	gallus gall
19	38	73.1	276	2	Q1QCK8_PSYCK	Q1qck8	psychrobact
20	38	73.1	376	2	Q5W6H5_ORYSA	Q5w6h5	oryza sativ
21	38	73.1	378	2	Q9M3W5_AVEA	Q9m3w5	avena sativ
22	38	73.1	387	2	Q38833_ARATH	Q38833	arabidopsis
23	38	73.1	445	1	GLMM_CAMJE	Q9pie2	campylobact
24	38	73.1	445	1	GLMM_CAMJR	Q5hwa7	campylobact
25	38	73.1	562	2	Q8KRB4_STRCL	Q8krb4	streptomyce
26	38	73.1	579	2	Q93LM7_PSESX	Q93lm7	pseudomonas
27	38	73.1	579	2	Q48M80_PSE14	Q48m80	pseudomonas
28	38	73.1	601	2	Q2GW73_CHAGB	Q2gw73	chaetomium
29	38	73.1	662	2	Q4I974_GIBZE	Q4i974	gibberella
30	38	73.1	989	2	Q54NP1_DICDI	Q54np1	dictyosteli
31	38	73.1	1038	2	Q54MW3_DICDI	Q54mw3	dictyosteli
32	37	71.2	179	2	Q1AR82_9ACTN	Q1ar82	rubrobacter
33	37	71.2	234	2	Q517H3_ENTHI	Q517h3	entamoeba h
34	37	71.2	270	1	DAPB_LEPIC	Q72u21	leptospora
35	37	71.2	270	1	DAPB_LEPIN	Q8f133	leptospora
36	37	71.2	335	2	Q28C88_XENTR	Q28c88	xenopus tro
37	37	71.2	391	1	FADA_PSE14	Q48gw4	pseudomonas
38	37	71.2	391	1	FADA_PSEF5	Q4kfc3	pseudomonas
39	37	71.2	391	1	FADA_PSESM	Q87zb3	pseudomonas
40	37	71.2	391	1	FADA_PSEU2	Q4zra1	pseudomonas
41	37	71.2	391	2	Q3K9D9_PSEPF	Q3k9d9	pseudomonas
42	37	71.2	420	2	Q1J305_DEIGD	Q1j305	deinococcus
43	37	71.2	442	2	Q9S3L2_CAMJE	Q9s3l2	campylobact
44	37	71.2	638	2	Q61X09_CAEBR	Q61x09	caenorhabdi
45	37	71.2	715	2	Q2CEP1_9RHOB	Q2cep1	oceanicola
46	37	71.2	732	2	Q4DYM6_TRYCR	Q4dym6	trypanosoma
47	37	71.2	831	2	Q1QZB7_CHRSD	Q1qzb7	chromohalob
48	37	71.2	909	2	Q8I4V7_PLAF7	Q8i4v7	plasmodium
49	37	71.2	909	2	Q6DIG4_XENTR	Q6dig4	xenopus tro
50	37	71.2	1150	2	Q6GQ11_XENLA	Q6gq11	xenopus lae
51	37	71.2	1152	2	Q4S7D3_TETNG	Q4s7d3	tetraodon n
52	37	71.2	1269	2	Q6A0B1_MOUSE	Q6a0b1	mus musculu
53	37	71.2	1382	1	ABCCB_HUMAN	Q96j66	homo sapien
54	37	71.2	1464	1	GWD1_SOLTU	Q9awa5	solanum tub
55	37	71.2	1507	2	Q5CMW1_CRYHO	Q5cmw1	cryptospori
56	37	71.2	1720	2	Q5R9I2_PONPY	Q5r9i2	pongo pygma
57	37	71.2	1724	1	PARP4_HUMAN	Q9ukk3	homo sapien
58	37	71.2	1724	2	Q5QNZ9_HUMAN	Q5qnz9	homo sapien
59	37	71.2	3955	2	Q23JE5_TETTH	Q23je5	tetrahymena
60	36	69.2	86	2	Q9PQF7_UREPA	Q9pqf7	ureaplasma
61	36	69.2	88	2	Q3LBN7_9MOLU	Q3lbn7	candidatus
62	36	69.2	129	2	Q4IWB5_AZOVI	Q4iwb5	azotobacter
63	36	69.2	134	2	O65169_MESCR	O65169	mesembryant
64	36	69.2	139	2	Q1Q7K8_9BACT	Q1q7k8	candidatus

65	36	69.2	198	2	Q4X377_PLACH	Q4x377 plasmodium
66	36	69.2	225	2	Q625X7_CAEBR	Q625x7 caenorhabdi
67	36	69.2	297	2	Q89RV4_BRAJA	Q89rv4 bradyrhizob
68	36	69.2	321	2	Q8GZ23_ARATH	Q8gz23 arabidopsis
69	36	69.2	338	2	Q518P0_ENTHI	Q518p0 entamoeba h
70	36	69.2	407	2	Q23555_ARATH	Q23555 arabidopsis
71	36	69.2	413	1	OST48_CHICK	P48440 gallus gall
72	36	69.2	438	2	Q6GNR9_XENLA	Q6gnr9 xenopus lae
73	36	69.2	439	1	AMIB_SALTY	P26366 salmonella
74	36	69.2	439	2	Q1XVJ5_CYTJO	Q1xvj5 flavobacter
75	36	69.2	439	2	Q8Z188_SALTI	Q8z188 salmonella
76	36	69.2	440	2	Q5PL50_SALPA	Q5pl50 salmonella
77	36	69.2	440	2	Q57GM2_SALCH	Q57gm2 salmonella
78	36	69.2	441	2	Q6NYS8_BRARE	Q6nys8 brachydanio
79	36	69.2	441	2	Q6PHG6_BRARE	Q6phg6 brachydanio
80	36	69.2	462	1	SYC_ANAPZ	Q2gkf4 anaplasma p
81	36	69.2	480	2	Q4SC95_TETNG	Q4sc95 tetraodon n
82	36	69.2	495	2	Q23MJ9_TETTH	Q23mj9 tetrahymena
83	36	69.2	583	2	Q4KAU0_PSEF5	Q4kau0 pseudomonas
84	36	69.2	614	2	Q9FKB6_ARATH	Q9fkb6 arabidopsis
85	36	69.2	617	2	Q3PI95_PARDE	Q3pi95 paracoccus
86	36	69.2	631	2	Q987B9_RHILO	Q987b9 rhizobium l
87	36	69.2	659	2	Q6C7Q8_YARLI	Q6c7q8 yarrowia li
88	36	69.2	664	2	Q7RWH8_NEUCR	Q7rwh8 neurospora
89	36	69.2	685	2	Q871N2_NEUCR	Q871n2 neurospora
90	36	69.2	692	2	Q36EW9_9GAMM	Q36ew9 shewanella
91	36	69.2	692	2	Q8EIU5_SHEON	Q8eiu5 shewanella
92	36	69.2	737	2	Q22TQ7_TETTH	Q22tq7 tetrahymena
93	36	69.2	745	2	Q237V4_TETTH	Q237v4 tetrahymena
94	36	69.2	843	2	Q8H821_ORYSA	Q8h821 oryza sativ
95	36	69.2	928	2	Q7NGK9_GLOVI	Q7ngk9 gloeobacter
96	36	69.2	1064	2	Q24E80_TETTH	Q24e80 tetrahymena
97	36	69.2	1123	2	Q6FLG5_CANGA	Q6flg5 candida gla
98	36	69.2	1171	2	Q4YUZ6_PLABE	Q4yuz6 plasmodium
99	36	69.2	1502	2	Q28YQ5_DROPS	Q28yq5 drosophila
100	36	69.2	1554	2	Q20XU9_RHOPB	Q20xu9 rhodopseudo
101	36	69.2	1783	2	Q7QCP4_ANOGA	Q7qcp4 anopheles g
102	36	69.2	2933	2	Q23WD4_TETTH	Q23wd4 tetrahymena
103	36	69.2	3252	2	Q23V92_TETTH	Q23v92 tetrahymena
104	36	69.2	3623	2	Q7RQ69_PLAYO	Q7rq69 plasmodium
105	36	69.2	6771	2	Q22R49_TETTH	Q22r49 tetrahymena
106	35	67.3	92	2	Q9R6J2_9RHIZ	Q9r6j2 agrobacteri
107	35	67.3	107	2	Q2BEL3_9BACI	Q2bel3 bacillus sp
108	35	67.3	117	2	Q5JF55_PYRKO	Q5jf55 pyrococcus
109	35	67.3	124	2	Q1SMB7_MEDTR	Q1smb7 medicago tr
110	35	67.3	184	2	Q9AZJ8_9CAUD	Q9azj8 bacterioph
111	35	67.3	184	2	Q9CJF5_LACLA	Q9cjf5 lactococcus
112	35	67.3	204	2	Q68VQ3_RICTY	Q68vq3 rickettsia
113	35	67.3	209	2	Q3ES87_BACTI	Q3es87 bacillus th
114	35	67.3	211	1	SODM_DEBHA	Q6bqz1 debaryomyce
115	35	67.3	225	2	Q2BVB4_LACRE	Q2bvb4 lactobacill
116	35	67.3	225	2	Q1QC11_PSYCK	Q1qc11 psychrobact
117	35	67.3	225	2	Q4FS07_PSYAR	Q4fs07 psychrobact
118	35	67.3	229	2	Q1QSD8_CHRSD	Q1qsd8 chromohalob
119	35	67.3	230	2	Q2CZK9_9FIRM	Q2czk9 desulfotoma
120	35	67.3	235	2	Q4WTK3_ASPFU	Q4wtk3 aspergillus
121	35	67.3	248	2	Q9D3X5_MOUSE	Q9d3x5 m adult mal
122	35	67.3	267	2	Q2CHE2_9RHOB	Q2che2 oceanicola
123	35	67.3	272	2	Q68Y10_RICTY	Q68y10 rickettsia
124	35	67.3	280	2	Q4FSS6_PSYAR	Q4fss6 psychrobact
125	35	67.3	283	2	Q9VBM5_DROME	Q9vbm5 drosophila

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126	35	67.3	284	2	Q7PWL1_ANOGA	Q7pwl1 anopheles g
127	35	67.3	286	2	Q6NDX5_9VIRU	Q6ndx5 leptospira
128	35	67.3	291	2	Q5N0H1_SYNYP6	Q5n0h1 synechococc
129	35	67.3	294	2	Q8LF76_ARATH	Q8lf76 arabidopsis
130	35	67.3	294	2	Q9SMP6_ARATH	Q9smp6 arabidopsis
131	35	67.3	303	2	Q1IY29_DEIGD	Q1iy29 deinococcus
132	35	67.3	308	2	Q3IGU3_PSEHT	Q3igu3 pseudoalter
133	35	67.3	315	2	Q7V2P4_PROMP	Q7v2p4 prochloroco
134	35	67.3	315	2	Q31CA7_PROM9	Q31ca7 prochloroco
135	35	67.3	316	2	Q46GZ1_PROMT	Q46gz1 prochloroco
136	35	67.3	316	2	Q7VDF3_PROMA	Q7vdf3 prochloroco
137	35	67.3	317	2	Q3ALF8_SYNSC	Q3alf8 synechococc
138	35	67.3	317	2	Q3AWY2_SYNS9	Q3awy2 synechococc
139	35	67.3	324	2	Q55145_SYNY3	Q55145 synechocyst
140	35	67.3	326	2	Q3HAH0_TRIER	Q3hah0 trichodesmi
141	35	67.3	326	2	Q4CB29_CROWT	Q4cb29 crocosphaer
142	35	67.3	328	1	MDH_CHLPN	Q9z6n1 chlamydia p
143	35	67.3	333	1	OTC1_ECOLI	P04391 escherichia
144	35	67.3	333	1	OTC_ECO57	Q8xcb8 escherichia
145	35	67.3	334	2	Q3YU98_SHISS	Q3yu98 shigella so
146	35	67.3	334	2	Q328S8_SHIDS	Q328s8 shigella dy
147	35	67.3	334	2	Q31TJ4_SHIBS	Q31tj4 shigella bo
148	35	67.3	336	2	Q7U5M6_SYNXP	Q7u5m6 synechococc
149	35	67.3	336	2	Q7V8R0_PROMM	Q7v8r0 prochloroco
150	35	67.3	337	1	OTC_SHIFL	Q83im2 shigella fl
151	35	67.3	337	2	Q92MG2_RHIME	Q92mg2 rhizobium m
152	35	67.3	337	2	Q3M7T8_ANAVT	Q3m7t8 anabaena va
153	35	67.3	339	2	Q31LF5_SYNYP7	Q31lf5 synechococc
154	35	67.3	343	2	Q7NJM3_GLOVI	Q7njm3 gloeobacter
155	35	67.3	344	2	Q8YNT1_ANASP	Q8ynt1 anabaena sp
156	35	67.3	348	2	Q9L5J3_SALTI	Q9l5j3 salmonella
157	35	67.3	350	2	Q41K89_METBU	Q41k89 methanococc
158	35	67.3	404	2	Q55DJ6_DICDI	Q55dj6 dictyosteli
159	35	67.3	410	2	Q82HM4_STRAW	Q82hm4 streptomyce
160	35	67.3	414	2	Q60U04_CAEBR	Q60u04 caenorhabdi
161	35	67.3	418	2	Q2C7M7_9GAMM	Q2c7m7 photobacter
162	35	67.3	426	2	Q3ETQ5_BACTI	Q3etq5 bacillus th
163	35	67.3	426	2	Q4MRY3_BACCE	Q4mry3 bacillus ce
164	35	67.3	426	2	Q2EA07_BACCE	Q2ea07 bacillus ce
165	35	67.3	426	2	Q2ASR7_9BACI	Q2asr7 bacillus we
166	35	67.3	426	2	Q6HDE4_BACHK	Q6hde4 bacillus th
167	35	67.3	426	2	Q817Z4_BACCR	Q817z4 bacillus ce
168	35	67.3	426	2	Q730F3_BACC1	Q730f3 bacillus ce
169	35	67.3	426	2	Q634G3_BACCZ	Q634g3 bacillus ce
170	35	67.3	426	2	Q81LK7_BACAN	Q81lk7 bacillus an
171	35	67.3	435	1	TOLB_AGR5	Q8u9l4 agrobacteri
172	35	67.3	436	1	TOLB_RHIME	Q926c2 rhizobium m
173	35	67.3	436	2	Q47AU5_DECAR	Q47au5 dechloromon
174	35	67.3	436	2	Q2K4L8_RHIEC	Q2k4l8 rhizobium e
175	35	67.3	438	2	Q2D5N9_9FIRM	Q2d5n9 desulfotoma
176	35	67.3	445	2	Q416M3_KINRA	Q416m3 kineococcus
177	35	67.3	451	2	Q4SQD1_TETNG	Q4sqd1 tetraodon n
178	35	67.3	455	2	Q3A223_PELCD	Q3a223 pelobacter
179	35	67.3	463	1	SYE1_CAMJE	O52914 campylobact
180	35	67.3	463	1	SYE2_CAMJR	Q5htb9 campylobact
181	35	67.3	463	2	Q89ZG9_BACTN	Q89zg9 bacteroides
182	35	67.3	468	2	Q4MVL3_BACCE	Q4mvl3 bacillus ce
183	35	67.3	468	2	Q6HCH6_BACHK	Q6hch6 bacillus th
184	35	67.3	468	2	Q72Z23_BACC1	Q72z23 bacillus ce
185	35	67.3	468	2	Q816W3_BACCR	Q816w3 bacillus ce
186	35	67.3	470	2	Q3H7C4_TRIER	Q3h7c4 trichodesmi

187	35	67.3	479	2	Q9F4K9_FIBSU	Q9f4k9 fibrobacter
188	35	67.3	519	2	Q6F0W5_MESFL	Q6f0w5 mesoplasma
189	35	67.3	522	2	Q6GMD7_XENLA	Q6gmd7 xenopus lae
190	35	67.3	526	2	Q5ANP1_CANAL	Q5anp1 candida alb
191	35	67.3	551	2	Q9HUD4_PSEAE	Q9hud4 pseudomonas
192	35	67.3	556	1	PAD_PORGI	Q9rqj2 porphyromon
193	35	67.3	556	2	Q9XBW3_PORGI	Q9xbw3 porphyromon
194	35	67.3	559	2	Q3GCI0_9FIRM	Q3gci0 syntrophomo
195	35	67.3	575	2	Q1S8F2_MEDTR	Q1s8f2 medicago tr
196	35	67.3	575	2	Q3Y1F6_ENTFC	Q3y1f6 enterococcu
197	35	67.3	575	2	Q831B8_ENTFA	Q831b8 enterococcu
198	35	67.3	576	2	Q88US1_LACPL	Q88us1 lactobacill
199	35	67.3	576	2	Q38WI2_LACSS	Q38wi2 lactobacill
200	35	67.3	580	2	Q2BVR9_LACRE	Q2bvr9 lactobacill
201	35	67.3	580	2	Q1U7D7_LACRE	Q1u7d7 lactobacill
202	35	67.3	583	2	Q3TSU5_MOUSE	Q3tsu5 mus musculu
203	35	67.3	590	2	Q9JPS3_NEIME	Q9jps3 neisseria m
204	35	67.3	591	2	Q9JR18_NEIME	Q9jrl8 neisseria m
205	35	67.3	591	2	Q93QY3_NEIME	Q93qy3 neisseria m
206	35	67.3	591	2	Q9JPS7_NEIME	Q9jps7 neisseria m
207	35	67.3	591	2	Q7DDJ2_NEIMB	Q7ddj2 neisseria m
208	35	67.3	592	2	Q9AQF0_NEIME	Q9aqf0 neisseria m
209	35	67.3	598	2	Q8EVZ8_MYCPE	Q8evz8 mycoplasma
210	35	67.3	611	2	Q9CIU5_LACLA	Q9ciu5 lactococcus
211	35	67.3	616	2	Q9F108_FIBSU	Q9f108 fibrobacter
212	35	67.3	726	2	Q6U5Y0_KLEPN	Q6u5y0 klebsiella
213	35	67.3	738	2	Q5ZY24_LEGPH	Q5zy24 legionella
214	35	67.3	738	2	Q5X7J4_LEGPA	Q5x7j4 legionella
215	35	67.3	782	2	Q9WU23_MOUSE	Q9wu23 mus musculu
216	35	67.3	827	2	Q8BRK9_MOUSE	Q8brk9 mus musculu
217	35	67.3	835	2	Q2UU70_ASPOR	Q2uu70 aspergillus
218	35	67.3	856	2	Q16EH0_AEDAE	Q16eh0 aedes aegyp
219	35	67.3	864	2	Q21KE4_SACD2	Q21ke4 saccharopha
220	35	67.3	878	2	Q2H3D5_CHAGB	Q2h3d5 chaetomium
221	35	67.3	1003	2	Q7PTA1_ANOGA	Q7pta1 anopheles g
222	35	67.3	1013	1	GPR64_RAT	Q8cj11 rattus norv
223	35	67.3	1015	2	Q41DY6_9BACI	Q41dy6 exiguobacte
224	35	67.3	1018	1	HMW1_MYCPN	Q50365 mycoplasma
225	35	67.3	1035	2	Q22CL6_TETTH	Q22cl6 tetrahymena
226	35	67.3	1065	2	Q6BNY6_DEBHA	Q6bny6 debaryomyce
227	35	67.3	1097	2	Q16NS9_AEDAE	Q16ns9 aedes aegyp
228	35	67.3	1100	2	Q2U2E9_ASPOR	Q2u2e9 aspergillus
229	35	67.3	1102	2	Q4T7I5_TETNG	Q4t7i5 tetraodon n
230	35	67.3	1139	1	MA2A2_HUMAN	P49641 homo sapien
231	35	67.3	1152	2	Q197W7_MOUSE	Q197w7 mus musculu
232	35	67.3	1209	2	Q6CFX9_YARLI	Q6cfx9 yarrowia li
233	35	67.3	1288	2	Q583D1_9TRYP	Q583d1 trypanosoma
234	35	67.3	1411	1	LITA_LATMA	Q02989 latrodectus
235	35	67.3	1647	2	P78847_SCHPO	P78847 schizosacch
236	35	67.3	1857	2	Q29HA1_DROPS	Q29ha1 drosophila
237	35	67.3	3182	2	Q7RI77_PLAYO	Q7ri77 plasmodium
238	35	67.3	5392	2	Q246Q2_TETTH	Q246q2 tetrahymena
239	34.5	66.3	477	2	Q241U7_TETTH	Q241u7 tetrahymena
240	34.5	66.3	842	2	Q54MH2_DICDI	Q54mh2 dictyosteli
241	34	65.4	39	2	Q4XM03_PLACH	Q4xm03 plasmodium
242	34	65.4	67	2	Q7X4E6_9MOLU	Q7x4e6 cherry leth
243	34	65.4	67	2	Q7X4F1_9MOLU	Q7x4f1 candidatus
244	34	65.4	67	2	Q7X4F4_9MOLU	Q7x4f4 hemp dogban
245	34	65.4	67	2	Q7X4E0_RUBST	Q7x4e0 rubus stunt
246	34	65.4	67	2	Q7X4E2_9MOLU	Q7x4e2 jujube witc
247	34	65.4	67	2	Q7X4E4_9MOLU	Q7x4e4 peach yello

248	34	65.4	67	2	Q7WRN8_FLADO	Q7wrn8 flavesce
249	34	65.4	67	2	Q7WRN9_ALDYE	Q7wrn9 alder yello
250	34	65.4	71	2	Q54GV2_DICDI	Q54gv2 dictyosteli
251	34	65.4	87	2	Q1SNI3_MEDTR	Q1sni3 medicago tr
252	34	65.4	88	2	Q69560_9BETA	Q69560 human herpe
253	34	65.4	89	2	Q9WT32_9BETA	Q9wt32 human herpe
254	34	65.4	108	2	Q5V0Q8_HALMA	Q5v0q8 haloarcula
255	34	65.4	139	2	Q5TX54_ANOGA	Q5tx54 anopheles g
256	34	65.4	139	2	Q2G2G5_STAA8	Q2g2g5 staphylococ
257	34	65.4	139	2	Q6GHY1_STAAR	Q6ghy1 staphylococ
258	34	65.4	139	2	Q6GAB0_STAAS	Q6gab0 staphylococ
259	34	65.4	139	2	Q5HGY0_STAAC	Q5hgy0 staphylococ
260	34	65.4	139	2	Q8NX73_STAAW	Q8nx73 staphylococ
261	34	65.4	139	2	Q2YX70_STAAB	Q2yx70 staphylococ
262	34	65.4	139	2	Q2FHX6_STAA3	Q2fhx6 staphylococ
263	34	65.4	160	2	Q930L4_RHIME	Q930l4 rhizobium m
264	34	65.4	161	2	Q8IPU1_DROME	Q8ipul drosophila
265	34	65.4	162	2	Q36PS1_MARHY	Q36ps1 marinobacte
266	34	65.4	178	2	Q3GBS5_9FIRM	Q3gbs5 syntrophomo
267	34	65.4	204	1	Y860_RICPR	P41078 rickettsia
268	34	65.4	223	2	Q3PET2_PARDE	Q3pet2 paracoccus
269	34	65.4	227	2	Q2T4K5_BURTA	Q2t4k5 burkholderi
270	34	65.4	231	2	Q1E5H3_COCIM	Q1e5h3 coccidioide
271	34	65.4	241	2	Q7P4D4_FUSNV	Q7p4d4 fusobacteri
272	34	65.4	253	2	Q33XC2_9GAMM	Q33xc2 shewanella
273	34	65.4	255	2	Q7P5I0_FUSNV	Q7p5i0 fusobacteri
274	34	65.4	266	2	Q33SX8_9GAMM	Q33sx8 shewanella
275	34	65.4	267	2	Q1GEE4_9RHOB	Q1gee4 silicibacte
276	34	65.4	267	2	Q5LKH7_SILPO	Q5lkh7 silicibacte
277	34	65.4	268	2	Q28SR9_JANSC	Q28sr9 jannaschia
278	34	65.4	273	2	Q92EQ6_LISIN	Q92eq6 listeria in
279	34	65.4	274	1	RHAD_YERPE	Q8zj03 yersinia pe
280	34	65.4	274	1	RHAD_YERPS	Q66ff5 yersinia ps
281	34	65.4	274	2	Q1C0V7_YERPE	Q1c0v7 yersinia pe
282	34	65.4	274	2	Q1CEB1_YERPE	Q1ceb1 yersinia pe
283	34	65.4	280	2	Q8XJV3_CLOPE	Q8xjv3 clostridium
284	34	65.4	281	2	Q2Z7Z8_9GAMM	Q2z7z8 shewanella
285	34	65.4	284	2	Q21KP8_SACD2	Q21kp8 saccharopha
286	34	65.4	286	2	Q35WE0_9GAMM	Q35we0 shewanella
287	34	65.4	286	2	Q36DM9_9GAMM	Q36dm9 shewanella
288	34	65.4	288	2	Q2ZS03_SHEPU	Q2zs03 shewanella
289	34	65.4	288	2	Q2X606_9GAMM	Q2x606 shewanella
290	34	65.4	288	2	Q8EFS1_SHEON	Q8efs1 shewanella
291	34	65.4	290	2	Q3QBI9_9GAMM	Q3qbi9 shewanella
292	34	65.4	293	2	Q27SU1_9EUKA	Q27sul hartmannell
293	34	65.4	314	2	Q8RDR6_FUSNN	Q8rdr6 fusobacteri
294	34	65.4	334	2	Q4TB71_TETNG	Q4tb71 tetraodon n
295	34	65.4	344	2	Q3N0E4_9DELT	Q3n0e4 syntrophoba
296	34	65.4	346	2	Q1WTR6_LACS1	Q1wtr6 lactobacill
297	34	65.4	346	2	Q5UQ83_MIMIV	Q5uq83 mimivirus.
298	34	65.4	352	2	Q5B5M5_EMENI	Q5b5m5 emericella
299	34	65.4	358	2	Q18G11_9EURY	Q18g11 haloquadrat
300	34	65.4	371	2	Q8PX13_METMA	Q8px13 methanosarc
301	34	65.4	374	2	Q4W895_TRISI	Q4w895 trionyx sin
302	34	65.4	376	2	Q8XU04_RALSO	Q8xu04 ralstonia s
303	34	65.4	386	2	Q1SG82_MEDTR	Q1sg82 medicago tr
304	34	65.4	395	2	Q471L2_RALEJ	Q471l2 ralstonia e
305	34	65.4	397	2	Q1UZZ5_9RICK	Q1uzz5 candidatus
306	34	65.4	397	2	Q4FL71_PELUB	Q4f171 pelagibacte
307	34	65.4	398	2	Q76P38_DICDI	Q76p38 dictyosteli
308	34	65.4	398	2	Q55A42_DICDI	Q55a42 dictyosteli

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309	34	65.4	400	2	Q4DRC1_TRYCR	Q4drc1 trypanosoma
310	34	65.4	400	2	Q4DGA0_TRYCR	Q4dga0 trypanosoma
311	34	65.4	409	2	Q359E7_9BRAD	Q359e7 bradyrhizob
312	34	65.4	409	2	Q36WK5_RHOPA	Q36wk5 rhodopseudo
313	34	65.4	409	2	Q37EE1_RHOPA	Q37ee1 rhodopseudo
314	34	65.4	409	2	Q1YDJ5_9RHIZ	Q1yjdj5 aurantimona
315	34	65.4	409	2	Q2J0P3_RHOP2	Q2j0p3 rhodopseudo
316	34	65.4	409	2	Q6NAD0_RHOPA	Q6nad0 rhodopseudo
317	34	65.4	409	2	Q89VS3_BRAJA	Q89vs3 bradyrhizob
318	34	65.4	409	2	Q2KYM6_BORA1	Q2kym6 bordetella
319	34	65.4	410	2	Q1EV69_9CLOT	Q1ev69 clostridium
320	34	65.4	411	1	XYNA_BUTFI	P23551 butyrivibri
321	34	65.4	411	2	Q2U0E3_ASPOR	Q2u0e3 aspergillus
322	34	65.4	411	2	Q1YUC1_9GAMM	Q1yuc1 marine gamm
323	34	65.4	418	2	Q9XDT5_CLOPE	Q9xdt5 clostridium
324	34	65.4	420	2	Q81NW9_BACAN	Q81nw9 bacillus an
325	34	65.4	420	2	Q6HH40_BACHK	Q6hh40 bacillus th
326	34	65.4	420	2	Q639Q8_BACCZ	Q639q8 bacillus ce
327	34	65.4	420	2	Q6KR69_BACAN	Q6kr69 bacillus an
328	34	65.4	444	2	Q6UAQ4_TETNG	Q6uaq4 tetraodon n
329	34	65.4	450	2	Q376W9_RHOPA	Q376w9 rhodopseudo
330	34	65.4	450	2	Q1QHq6_NITHX	Q1qhq6 nitrobacter
331	34	65.4	450	2	Q20X63_RHOPB	Q20x63 rhodopseudo
332	34	65.4	450	2	Q3SP21_NITWN	Q3sp21 nitrobacter
333	34	65.4	455	2	Q4SAT9_TETNG	Q4sat9 tetraodon n
334	34	65.4	486	2	Q6C0E4_YARLI	Q6c0e4 yarrowia li
335	34	65.4	514	2	Q5WEN3_BACSK	Q5wen3 bacillus cl
336	34	65.4	516	2	Q86S91_9CILI	Q86s91 epidinium c
337	34	65.4	526	1	CP11A_MOUSE	Q9qz82 mus musculu
338	34	65.4	526	2	Q6NV84_MOUSE	Q6nv84 mus musculu
339	34	65.4	532	2	Q4WDM3_ASPFU	Q4wdm3 aspergillus
340	34	65.4	532	2	Q4D7N4_TRYCR	Q4d7n4 trypanosoma
341	34	65.4	543	2	Q7QHL5_ANOGA	Q7qhl5 anopheles g
342	34	65.4	574	2	Q3VLE8_9CHLB	Q3vle8 pelodictyon
343	34	65.4	586	2	Q6DCL0_XENLA	Q6dcl0 xenopus lae
344	34	65.4	597	2	Q6BTU0_DEBHA	Q6btu0 debaryomyce
345	34	65.4	600	2	Q5FII3_LACAC	Q5fii3 lactobacill
346	34	65.4	607	2	Q2QWN8_ORYSA	Q2qwn8 oryza sativ
347	34	65.4	612	2	Q1T6H5_MEDTR	Q1t6h5 medicago tr
348	34	65.4	620	2	Q97UF5_SULSO	Q97uf5 sulfolobus
349	34	65.4	621	2	Q371M5_RHOPA	Q371m5 rhodopseudo
350	34	65.4	626	2	Q213H3_RHOPB	Q213h3 rhodopseudo
351	34	65.4	627	2	Q64ZA2_BACFR	Q64za2 bacteroides
352	34	65.4	627	2	Q5LI90_BACFN	Q5li90 bacteroides
353	34	65.4	642	2	Q2H5Y3_CHAGB	Q2h5y3 chaetomium
354	34	65.4	662	2	Q55B87_DICDI	Q55b87 dictyosteli
355	34	65.4	667	2	Q9WXA5_ERWCA	Q9wxa5 erwinia car
356	34	65.4	671	2	Q46BZ7_METBF	Q46bz7 methanosarc
357	34	65.4	706	2	Q1Z347_PHOPR	Q1z347 photobacter
358	34	65.4	706	2	Q6LUH7_PHOPR	Q6luh7 photobacter
359	34	65.4	713	2	Q35NG4_9BRAD	Q35ng4 bradyrhizob
360	34	65.4	715	2	Q35Y52_9GAMM	Q35y52 shewanella
361	34	65.4	715	2	Q366G7_9GAMM	Q366g7 shewanella
362	34	65.4	715	2	Q2ZAA4_9GAMM	Q2zaa4 shewanella
363	34	65.4	721	2	Q4UM89_RICFE	Q4um89 rickettsia
364	34	65.4	722	2	Q4DA50_TRYCR	Q4da50 trypanosoma
365	34	65.4	731	2	Q6TMX8_SCHMA	Q6tmx8 schistosoma
366	34	65.4	751	2	Q7NDW2_GLOVI	Q7ndw2 gloeobacter
367	34	65.4	757	2	Q1DKV6_COCIM	Q1dkv6 coccidioide
368	34	65.4	764	1	TGMH_TACTR	Q05187 tachypleus
369	34	65.4	795	2	Q54D39_DICDI	Q54d39 dictyosteli

370	34	65.4	819	2	Q469H7_METBF	Q469h7 methanosarc
371	34	65.4	836	2	Q55EB8_DICDI	Q55eb8 dictyosteli
372	34	65.4	922	2	Q50U10_ENTHI	Q50u10 entamoeba h
373	34	65.4	947	2	Q245T8_TETTH	Q245t8 tetrahymena
374	34	65.4	954	2	Q877C1_HANAN	Q877c1 hansenula a
375	34	65.4	977	2	Q96681_9ADEN	Q96681 canine aden
376	34	65.4	980	2	Q4HWE2_GIBZE	Q4hwe2 gibberella
377	34	65.4	1050	2	Q22KZ1_TETTH	Q22kz1 tetrahymena
378	34	65.4	1051	2	Q46DX3_METBF	Q46dx3 methanosarc
379	34	65.4	1067	2	Q2RIH6_MOOTA	Q2rih6 moorella th
380	34	65.4	1095	2	Q1XLQ0_CYTJO	Q1xlq0 flavobacter
381	34	65.4	1129	1	AKA11_RAT	Q62924 rattus norv
382	34	65.4	1149	1	DPOL_ADECC	Q65946 canine aden
383	34	65.4	1160	2	Q23I23_TETTH	Q23i23 tetrahymena
384	34	65.4	1183	2	Q4BSW9_BURVI	Q4bsw9 burkholderi
385	34	65.4	1184	2	Q6F3A8_ORYSA	Q6f3a8 oryza sativ
386	34	65.4	1245	2	Q8I2R3_PLAF7	Q8i2r3 plasmodium
387	34	65.4	1264	2	Q8RQ61_ACTAC	Q8rq61 actinobacil
388	34	65.4	1355	2	Q24ND7_DESHY	Q24nd7 desulfitoba
389	34	65.4	1393	2	Q23FC3_TETTH	Q23fc3 tetrahymena
390	34	65.4	1415	2	Q53MV4_ORYSA	Q53mv4 oryza sativ
391	34	65.4	1505	2	Q17LB0_AEDAE	Q17lb0 aedes aegyp
392	34	65.4	1604	2	Q4YT32_PLABE	Q4yt32 plasmodium
393	34	65.4	1746	2	Q5JJ43_PYRKO	Q5jj43 pyrococcus
394	34	65.4	1784	2	Q9YS15_9CALI	Q9ys15 norwalk vir
395	34	65.4	1901	1	AKA11_HUMAN	Q9uka4 homo sapien
396	34	65.4	1965	2	Q6VBQ2_ACTAC	Q6vbq2 actinobacil
397	34	65.4	2185	2	Q8W6J4_9CAUD	Q8w6j4 sinorhizobi
398	34	65.4	2197	2	Q74MS4_NANEQ	Q74ms4 nanoarchaeu
399	34	65.4	2254	2	Q1FKQ7_9CLOT	Q1fkq7 clostridium
400	34	65.4	2680	2	Q4Y177_PLACH	Q4y177 plasmodium
401	34	65.4	2747	2	Q7RSM4_PLAYO	Q7rsm4 plasmodium
402	33.5	64.4	1772	2	Q5SBN0_LACRE	Q5sbn0 lactobacill
403	33	63.5	39	2	Q3CXX6_STRAG	Q3cxx6 streptococc
404	33	63.5	58	2	Q2SWS0_BURTA	Q2sws0 burkholderi
405	33	63.5	75	2	Q3C937_9CLOT	Q3c937 alkaliphilu
406	33	63.5	78	2	Q5DN96_9CAUD	Q5dn96 bacterioph
407	33	63.5	85	2	Q91200_9GEMI	Q91200 tomato mosa
408	33	63.5	94	2	Q4PIW4_CAEEL	Q4piw4 caenorhabdi
409	33	63.5	123	2	Q59411_PYRHO	Q59411 pyrococcus
410	33	63.5	130	2	Q6WAS1_DROSI	Q6was1 drosophila
411	33	63.5	130	2	Q6WAS4_DROMA	Q6was4 drosophila
412	33	63.5	130	2	Q6WAS2_DROSE	Q6was2 drosophila
413	33	63.5	130	2	Q6WAS3_DROMA	Q6was3 drosophila
414	33	63.5	135	1	LGUL_ECO57	P0ac82 escherichia
415	33	63.5	135	1	LGUL_ECOLI	P0ac81 escherichia
416	33	63.5	135	1	LGUL_SALTI	P0alq3 salmonella
417	33	63.5	135	1	LGUL_SALTY	P0alq2 salmonella
418	33	63.5	135	1	LGUL_SHIFL	P0ac83 shigella fl
419	33	63.5	135	2	Q3WK99_9RHIZ	Q3wk99 mesorhizobi
420	33	63.5	135	2	Q1REE4_ECOUT	Q1rbe4 escherichia
421	33	63.5	135	2	Q5PH08_SALPA	Q5ph08 salmonella
422	33	63.5	135	2	Q3Z207_SHISS	Q3z207 shigella so
423	33	63.5	135	2	Q321A6_SHIBS	Q321a6 shigella bo
424	33	63.5	135	2	Q32FB9_SHIDS	Q32fb9 shigella dy
425	33	63.5	135	2	Q57PK1_SALCH	Q57pk1 salmonella
426	33	63.5	135	2	Q8FH76_ECOL6	Q8fh76 escherichia
427	33	63.5	136	2	Q93TV9_NEIME	Q93tv9 neisseria m
428	33	63.5	136	2	Q3ADE7_CARHZ	Q3ade7 carboxydoth
429	33	63.5	148	2	Q33392_NEIME	Q33392 neisseria m
430	33	63.5	153	2	Q47494_ECOLI	Q47494 escherichia

431	33	63.5	155	2	Q4XIW4_PLACH	Q4xiw4 plasmodium
432	33	63.5	160	2	Q178T3_AEDAE	Q178t3 aedes aegyp
433	33	63.5	161	2	Q2EGV9_9ZZZZ	Q2egv9 environment
434	33	63.5	161	2	Q2EGW0_9ZZZZ	Q2egw0 environment
435	33	63.5	161	2	Q2EGX3_9ZZZZ	Q2egx3 environment
436	33	63.5	161	2	Q2EGY5_9ZZZZ	Q2egy5 environment
437	33	63.5	163	2	Q32424_9LILI	Q32424 heteranther
438	33	63.5	174	2	Q5FSX7_GLUOX	Q5fsx7 gluconobact
439	33	63.5	178	2	Q698V4_9HIV1	Q698v4 human immun
440	33	63.5	198	2	Q8SQS6_ENCCU	Q8sqs6 encephalito
441	33	63.5	198	2	Q1MIX5_RHIL3	Q1mix5 rhizobium l
442	33	63.5	199	2	Q7YWS2_CAEEL	Q7yws2 caenorhabdi
443	33	63.5	203	2	Q4E6Y3_9RICK	Q4e6y3 wolbachia e
444	33	63.5	207	2	Q4XTR0_PLACH	Q4xtr0 plasmodium
445	33	63.5	208	2	Q4HJ97_CAMLA	Q4hj97 campylobact
446	33	63.5	216	2	Q6TFU8_ERWAM	Q6tfu8 erwinia amy
447	33	63.5	221	2	Q9X6L2_KLEOX	Q9x6l2 klebsiella
448	33	63.5	221	2	Q8GFS6_CITFR	Q8gfs6 citrobacter
449	33	63.5	222	2	Q2NRC5_SODGM	Q2nrc5 sodalis glo
450	33	63.5	226	2	Q3NWJ4_9GAMM	Q3nwj4 shewanella
451	33	63.5	230	2	Q299X7_DROPS	Q299x7 drosophila
452	33	63.5	230	2	Q2BWT9_9GAMM	Q2bwt9 photobacter
453	33	63.5	230	2	Q1ZQ13_9VIBR	Q1zq13 vibrio angu
454	33	63.5	230	2	Q1MK06_RHIL3	Q1mk06 rhizobium l
455	33	63.5	230	2	Q223I0_RHOFD	Q223i0 rhodoferax
456	33	63.5	238	2	Q89K99_BRAJA	Q89k99 bradyrhizob
457	33	63.5	242	2	Q1VLD5_9FLAO	Q1vld5 psychroflex
458	33	63.5	245	2	Q477M5_RALEJ	Q477m5 ralstonia e
459	33	63.5	260	2	Q3DG50_STRAG	Q3dg50 streptococc
460	33	63.5	260	2	Q3DPW8_STRAG	Q3dpw8 streptococc
461	33	63.5	260	2	Q3CZG8_STRAG	Q3czg8 streptococc
462	33	63.5	260	2	Q3D7X6_STRAG	Q3d7x6 streptococc
463	33	63.5	260	2	Q3K1F0_STRA1	Q3k1f0 streptococc
464	33	63.5	263	2	Q7BV99_BACSU	Q7bv99 bacillus su
465	33	63.5	270	2	Q4LRF4_9BURK	Q4lrf4 burkholderi
466	33	63.5	270	2	Q1BWK6_9BURK	Q1bwk6 burkholderi
467	33	63.5	272	1	RHAD_MANSM	Q65q26 mannheimia
468	33	63.5	272	2	Q4T673_TETNG	Q4t673 tetraodon n
469	33	63.5	274	1	RHAD_ERWCT	Q6da25 erwinia car
470	33	63.5	277	2	Q4UW71_XANCB	Q4uw71 xanthomonas
471	33	63.5	277	2	Q8P7X8_XANCP	Q8p7x8 xanthomonas
472	33	63.5	280	2	Q1U7P0_LACRE	Q1u7p0 lactobacill
473	33	63.5	280	2	Q8PJB8_XANAC	Q8pjb8 xanthomonas
474	33	63.5	281	1	RHAD_LACPL	Q88s52 lactobacill
475	33	63.5	289	2	Q1J2F0_DEIGD	Q1j2f0 deinococcus
476	33	63.5	298	2	Q31859_BACSU	Q31859 bacillus su
477	33	63.5	299	2	Q73FT5_WOLPM	Q73ft5 wolbachia p
478	33	63.5	300	2	Q5GTI5_WOLTR	Q5gti5 wolbachia s
479	33	63.5	301	2	Q3NTN1_SHEFR	Q3ntn1 shewanella
480	33	63.5	304	2	Q4ECI1_9RICK	Q4eci1 wolbachia e
481	33	63.5	310	2	Q9F7L8_PRBO1	Q9f7l8 gamma-prote
482	33	63.5	322	2	Q89X96_BRAJA	Q89x96 bradyrhizob
483	33	63.5	327	2	Q4YBK1_PLABE	Q4ybk1 plasmodium
484	33	63.5	328	2	Q8L7U0_ARATH	Q8l7u0 arabidopsis
485	33	63.5	330	2	Q3VMU2_9CHLB	Q3vmu2 pelodictyon
486	33	63.5	338	2	Q4DQY3_TRYCR	Q4dqy3 trypanosoma
487	33	63.5	344	2	Q4IAG2_GIBZE	Q4iag2 gibberella
488	33	63.5	344	2	Q5WNG1_CAEER	Q5wng1 caenorhabdi
489	33	63.5	344	2	Q22FK2_TETTH	Q22fk2 tetrahymena
490	33	63.5	345	2	Q9SRN7_ARATH	Q9srn7 arabidopsis
491	33	63.5	352	2	Q17C34_AEDAE	Q17c34 aedes aegyp

492	33	63.5	354	2	Q6AS38_DESPS	Q6as38	desulfotale
493	33	63.5	362	2	Q56591_VIBAN	Q56591	vibrio angu
494	33	63.5	363	2	Q17C33_AEDAE	Q17c33	aedes aegyp
495	33	63.5	364	2	Q7UMZ8_RHOBA	Q7umz8	rhodopirell
496	33	63.5	365	2	Q7QZB6_GIALA	Q7qzb6	giardia lam
497	33	63.5	371	2	Q3CA76_9CLOT	Q3ca76	alkaliphilu
498	33	63.5	380	2	Q3ZWC0_DEHSC	Q3zwc0	dehalococco
499	33	63.5	382	2	Q444B2_SOLUS	Q444b2	solibacter
500	33	63.5	385	1	GLGC_OCEIH	Q8et56	oceanobacil
501	33	63.5	387	2	Q4YYB5_PLABE	Q4yyb5	plasmodium
502	33	63.5	389	2	Q7BKY8_CLOBE	Q7bky8	clostridium
503	33	63.5	389	2	Q2WKN1_CLOBE	Q2wnk1	clostridium
504	33	63.5	389	2	Q5YRL0_NOCFA	Q5yrl0	nocardia fa
505	33	63.5	397	1	CATEA_XENLA	Q805f3	xenopus lae
506	33	63.5	397	1	CATEB_XENLA	Q805f2	xenopus lae
507	33	63.5	397	2	Q28KS1_JANSC	Q28ks1	jannaschia
508	33	63.5	398	2	Q2BCG7_9BACI	Q2bcg7	bacillus sp
509	33	63.5	402	2	Q73J54_TREDE	Q73j54	treponema d
510	33	63.5	404	2	Q8GN17_CAMJE	Q8gn17	campylobact
511	33	63.5	409	2	Q8RN01_CAMJE	Q8rn01	campylobact
512	33	63.5	416	2	Q4W9V4_ASPFU	Q4w9v4	aspergillus
513	33	63.5	416	2	Q4R399_MACFA	Q4r399	macaca fasc
514	33	63.5	418	2	Q4Q1A4_LEIMA	Q4qla4	leishmania
515	33	63.5	418	2	Q1ARX5_9ACTN	Q1arx5	rubrobacter
516	33	63.5	418	2	Q5N669_SYNP6	Q5n669	synechococc
517	33	63.5	418	2	Q31MY9_SYNP7	Q31my9	synechococc
518	33	63.5	420	2	Q735R7_BACC1	Q735r7	bacillus ce
519	33	63.5	436	2	Q2C5E9_9GAMM	Q2c5e9	photobacter
520	33	63.5	436	2	Q1ZPC1_9VIBR	Q1zpc1	vibrio angu
521	33	63.5	438	2	Q7VR90_BLOFL	Q7vr90	blochmannia
522	33	63.5	441	2	Q7PNP0_ANOGA	Q7pnp0	anopheles g
523	33	63.5	444	2	Q3MW93_9DELT	Q3mw93	syntrophoba
524	33	63.5	445	2	Q54TF9_DICDI	Q54tf9	dictyosteli
525	33	63.5	446	2	Q4CRY1_TRYCR	Q4cry1	trypanosoma
526	33	63.5	447	2	Q4MZN6_THEPA	Q4mzn6	theileria p
527	33	63.5	450	2	Q6L4X7_ORYSA	Q6l4x7	oryza sativ
528	33	63.5	455	2	Q2ZIZ7_CALSA	Q2ziz7	caldicellul
529	33	63.5	467	2	Q72EN8_DESVH	Q72en8	desulfovibr
530	33	63.5	468	2	Q8E4S2_STRA3	Q8e4s2	streptococc
531	33	63.5	470	1	SYE_COLP3	Q47z58	colwellia p
532	33	63.5	474	2	Q8TXQ5_METKA	Q8txq5	methanopyru
533	33	63.5	476	2	Q5FVR2_RAT	Q5fvr2	rattus norv
534	33	63.5	482	1	DP2S_METTH	Q27456	methanobact
535	33	63.5	492	2	Q50NG3_ENTHI	Q50ng3	entamoeba h
536	33	63.5	495	2	Q3G908_9FIRM	Q3g908	syntrophomo
537	33	63.5	496	2	Q5FJS5_LACAC	Q5fjs5	lactobacill
538	33	63.5	498	2	Q97EM4_CLOAB	Q97em4	clostridium
539	33	63.5	500	2	Q91LB9_WSSV	Q91lb9	white spot
540	33	63.5	501	2	Q8VAX1_WSSV	Q8vax1	white spot
541	33	63.5	505	2	Q7V3S2_PROMM	Q7v3s2	prochloroco
542	33	63.5	510	2	Q2GIR3_ANAPZ	Q2gir3	anaplasma p
543	33	63.5	513	2	Q37D14_RHOPA	Q37d14	rhodopseudo
544	33	63.5	515	2	Q39TP1_GEOMG	Q39tp1	geobacter m
545	33	63.5	518	2	Q747N5_GEOSL	Q747n5	geobacter s
546	33	63.5	519	2	Q7R4L1_GIALA	Q7r4l1	giardia lam
547	33	63.5	519	2	Q2DLM9_9DELT	Q2dlm9	geobacter u
548	33	63.5	524	2	Q8IDY6_PLAF7	Q8idy6	plasmodium
549	33	63.5	528	1	AKT2_CAEEEL	Q9xtg7	caenorhabdi
550	33	63.5	531	2	Q55FN8_DICDI	Q55fn8	dictyosteli
551	33	63.5	532	2	Q4BM52_BURVI	Q4bm52	burkholderi
552	33	63.5	542	2	Q1E559_COCIM	Q1e559	coccidioidi

553	33	63.5	545	2	Q59MG4_CANAL	Q59mg4 candida alb
554	33	63.5	559	2	Q6MLS0_BDEBA	Q6mls0 bdellovibri
555	33	63.5	570	2	Q3UUH4_MOUSE	Q3uuh4 mus musculu
556	33	63.5	575	2	Q24HR4_TETTH	Q24hr4 tetrahymena
557	33	63.5	575	2	Q6PF71_XENLA	Q6pf71 xenopus lae
558	33	63.5	582	2	Q7RXZ0_NEUCR	Q7rxz0 neurospora
559	33	63.5	583	2	Q4R9M2_9PSED	Q4r9m2 pseudomonas
560	33	63.5	589	1	MAOX_PHAVU	P12628 phaseolus v
561	33	63.5	589	2	Q8EV13_MYCPE	Q8ev13 mycoplasma
562	33	63.5	602	2	Q8A1C5_BACTN	Q8alc5 bacteroides
563	33	63.5	603	1	ATG7_KLULA	Q6cxw3 kluyveromyc
564	33	63.5	603	2	Q4QHN7_LEIMA	Q4qhn7 leishmania
565	33	63.5	606	2	Q4WBE9_ASPFU	Q4wbe9 aspergillus
566	33	63.5	613	2	Q4SEZ5_TETNG	Q4sez5 tetraodon n
567	33	63.5	620	2	Q1LRI4_RALME	Q1lri4 ralstonia m
568	33	63.5	623	2	Q6FIM0_CANGA	Q6fim0 candida gla
569	33	63.5	624	1	IL16_MOUSE	O54824 mus musculu
570	33	63.5	624	1	SUVH4_ARATH	Q8gzb6 a histone-1
571	33	63.5	624	2	Q3UZ81_MOUSE	Q3uz81 mus musculu
572	33	63.5	627	2	Q22TQ3_TETTH	Q22tq3 tetrahymena
573	33	63.5	630	2	Q9KG19_BACHD	Q9kg19 bacillus ha
574	33	63.5	637	2	Q3WTA7_9RHIZ	Q3wta7 mesorhizobi
575	33	63.5	638	2	Q1W3Z7_ASPJA	Q1w3z7 aspergillus
576	33	63.5	653	2	Q91591_XENLA	Q91591 xenopus lae
577	33	63.5	654	2	Q96VC5_ASPNG	Q96vc5 aspergillus
578	33	63.5	684	2	Q17IS1_AEDAE	Q17is1 aedes aegyp
579	33	63.5	692	2	Q1X4K3_9FIRM	Q1x4k3 pelotomacul
580	33	63.5	694	2	Q5B0U7_EMENI	Q5b0u7 emericella
581	33	63.5	694	2	Q97EM5_CLOAB	Q97em5 clostridium
582	33	63.5	725	2	Q67DV0_SHIDY	Q67dv0 shigella dy
583	33	63.5	725	2	Q93K73_ECOLI	Q93k73 escherichia
584	33	63.5	725	2	Q8GH18_ECOLI	Q8gh18 escherichia
585	33	63.5	725	2	Q9RQ19_ECOLI	Q9rq19 escherichia
586	33	63.5	725	2	Q1RDG2_ECOUT	Q1rdg2 escherichia
587	33	63.5	725	2	Q32HL8_SHIDS	Q32hl8 shigella dy
588	33	63.5	725	2	Q8CY02_ECOL6	Q8cy02 escherichia
589	33	63.5	730	2	Q467V1_METBF	Q467v1 methanosarc
590	33	63.5	747	2	Q57XR4_9TRYP	Q57xr4 trypanosoma
591	33	63.5	756	2	Q97FQ4_CLOAB	Q97fq4 clostridium
592	33	63.5	760	2	Q4BGW5_BURVI	Q4bgw5 burkholderi
593	33	63.5	785	2	Q8A7S7_BACTN	Q8a7s7 bacteroides
594	33	63.5	791	2	Q98QC9_MYCPU	Q98qc9 mycoplasma
595	33	63.5	797	2	Q1MDP5_RHIL3	Q1mdp5 rhizobium l
596	33	63.5	818	2	Q6IRA3_XENLA	Q6ira3 xenopus lae
597	33	63.5	820	2	Q9WV94_MOUSE	Q9wv94 mus musculu
598	33	63.5	852	2	Q73KW3_TREDE	Q73kw3 treponema d
599	33	63.5	857	2	Q4XWF8_PLACH	Q4xwf8 plasmodium
600	33	63.5	861	2	Q61J57_CAEBR	Q61j57 caenorhabdi
601	33	63.5	866	2	Q4HZP1_GIBZE	Q4hzp1 gibberella
602	33	63.5	867	2	Q1GFJ9_9RHOB	Q1gjf9 silicibacte
603	33	63.5	882	1	ALX1_CAEEL	P34552 caenorhabdi
604	33	63.5	905	1	ATS8_MOUSE	P57110 mus musculu
605	33	63.5	906	2	Q5FIP7_LACAC	Q5fip7 lactobacill
606	33	63.5	915	2	Q1IHM3_ACIBL	Q1ihm3 acidobacter
607	33	63.5	934	2	Q87R90_VIBPA	Q87r90 vibrio para
608	33	63.5	977	2	Q84IL7_CLONO	Q84il7 clostridium
609	33	63.5	978	2	Q3NUU4_SHEFR	Q3nuu4 shewanella
610	33	63.5	994	2	Q1V5R5_VIBAL	Q1v5r5 vibrio algi
611	33	63.5	998	2	Q5H875_CIOIN	Q5h875 ciona intes
612	33	63.5	1025	2	Q5R8P8_PONPY	Q5r8p8 pongo pygma
613	33	63.5	1031	2	Q7RCB6_PLAYO	Q7rcb6 plasmodium

614	33	63.5	1072	2	O77690_BOVIN	O77690 bos taurus
615	33	63.5	1073	1	GUC2C_HUMAN	P25092 homo sapien
616	33	63.5	1073	1	GUC2C_PIG	P55204 sus scrofa
617	33	63.5	1073	2	Q9SRV6_ARATH	Q9srv6 arabidopsis
618	33	63.5	1078	2	Q8GZ56_ARATH	Q8gz56 arabidopsis
619	33	63.5	1081	2	Q3EBC6_ARATH	Q3ebc6 arabidopsis
620	33	63.5	1120	2	Q4I230_GIBZE	Q4i230 gibberella
621	33	63.5	1128	2	Q2KFU7_MAGGR	Q2kfu7 magnaporthe
622	33	63.5	1158	2	Q3UDE7_MOUSE	Q3ude7 m bone marr
623	33	63.5	1168	2	Q22KC2_TETTH	Q22kc2 tetrahymena
624	33	63.5	1175	2	Q13632_HUMAN	Q13632 homo sapien
625	33	63.5	1175	2	Q895V7_CLOTE	Q895v7 clostridium
626	33	63.5	1218	2	Q4VSW4_RAT	Q4vsw4 rattus norv
627	33	63.5	1219	2	Q86W55_HUMAN	Q86w55 homo sapien
628	33	63.5	1250	2	Q3V0S4_MOUSE	Q3v0s4 mus musculu
629	33	63.5	1268	2	Q3U1T7_MOUSE	Q3ult7 mus musculu
630	33	63.5	1316	2	Q51F49_ENTHI	Q51f49 entamoeba h
631	33	63.5	1322	2	Q9QZP6_MOUSE	Q9qzp6 mus musculu
632	33	63.5	1331	2	Q243F0_TETTH	Q243f0 tetrahymena
633	33	63.5	1337	2	Q519J0_ENTHI	Q519j0 entamoeba h
634	33	63.5	1343	2	Q50WZ0_ENTHI	Q50wz0 entamoeba h
635	33	63.5	1359	2	Q2D7P5_ACICY	Q2d7p5 acidiphiliu
636	33	63.5	1363	2	Q5DTR5_MOUSE	Q5dtr5 mus musculu
637	33	63.5	1373	2	Q8IWE9_HUMAN	Q8iwe9 homo sapien
638	33	63.5	1403	1	IF4G_SCHPO	Q10475 schizosacch
639	33	63.5	1427	2	Q16580_HUMAN	Q16580 homo sapien
640	33	63.5	1427	2	Q14207_HUMAN	Q14207 homo sapien
641	33	63.5	1450	2	Q24E59_TETTH	Q24e59 tetrahymena
642	33	63.5	1480	2	Q8VMR0_PHOLU	Q8vmr0 photorhabdu
643	33	63.5	1480	2	Q7N9K8_PHOLL	Q7n9k8 photorhabdu
644	33	63.5	1772	2	Q3HEZ0_TRIER	Q3hez0 trichodesmi
645	33	63.5	1825	2	Q8T9W1_DICDI	Q8t9w1 dictyosteli
646	33	63.5	1825	2	Q54M85_DICDI	Q54m85 dictyosteli
647	33	63.5	1908	2	Q8A5B3_BACTN	Q8a5b3 bacteroides
648	33	63.5	1977	2	Q2HE55_CHAGB	Q2he55 chaetomium
649	33	63.5	1978	2	Q9K0S7_NEIMB	Q9k0s7 neisseria m
650	33	63.5	1995	2	Q9JY23_NEIMB	Q9jy23 neisseria m
651	33	63.5	2015	2	Q7AX69_NEIME	Q7ax69 neisseria m
652	33	63.5	2015	2	Q9JRD2_NEIMA	Q9jrd2 neisseria m
653	33	63.5	2047	2	Q6LJT0_PHOPR	Q6ljt0 photobacter
654	33	63.5	2322	2	Q3HFO8_TRIER	Q3hf08 trichodesmi
655	33	63.5	2769	2	Q3IW62_RHOS4	Q3iw62 rhodobacter
656	33	63.5	2837	2	Q6X3J2_PSEAE	Q6x3j2 pseudomonas
657	33	63.5	2845	2	Q1QKD4_NITHX	Q1qkd4 nitrobacter
658	33	63.5	2883	2	Q373Y2_RHOPA	Q373y2 rhodopseudo
659	33	63.5	4078	2	Q5CJE6_CRYHO	Q5cje6 cryptospori
660	33	63.5	4317	2	Q623Y1_CAEBR	Q623y1 caenorhabdi
661	33	63.5	5832	2	Q5CYU1_CRYPV	Q5cyu1 cryptospori
662	32	61.5	26	2	Q56244_THEAQ	Q56244 thermus aqu
663	32	61.5	57	2	Q6MRY6_MYCMS	Q6mry6 mycoplasma
664	32	61.5	67	2	Q9L5T2_SALTI	Q9l5t2 salmonella
665	32	61.5	67	2	Q935P9_SALTI	Q935p9 salmonella
666	32	61.5	72	2	Q9CHL4_LACLA	Q9chl4 lactococcus
667	32	61.5	85	2	Q74L47_LACJO	Q74l47 lactobacill
668	32	61.5	86	2	Q7UFR9_RHOPA	Q7ufr9 rhodopirell
669	32	61.5	89	2	Q185H2_CLODI	Q185h2 clostridium
670	32	61.5	93	2	Q64Z30_BACFR	Q64z30 bacteroides
671	32	61.5	98	1	Y112_HAEIN	P71339 haemophilus
672	32	61.5	98	2	Q4QP68_HAEI8	Q4qp68 haemophilus
673	32	61.5	100	2	Q207C2_PLAFA	Q207c2 plasmodium
674	32	61.5	101	2	Q6AL08_DESPS	Q6al08 desulfotale

675	32	61.5	114	2	Q75Z94_9GAMM	Q75z94	halomonas	s
676	32	61.5	114	2	Q4R1N0_9GAMM	Q4r1n0	halomonas	s
677	32	61.5	114	2	Q75Z95_9GAMM	Q75z95	halomonas	s
678	32	61.5	114	2	Q4R1N3_9GAMM	Q4r1n3	halomonas	s
679	32	61.5	114	2	Q75Z98_9GAMM	Q75z98	halomonas	s
680	32	61.5	114	2	Q4R1M0_9GAMM	Q4r1m0	halomonas	s
681	32	61.5	114	2	Q4R1N1_9GAMM	Q4r1n1	halomonas	s
682	32	61.5	114	2	Q75Z96_9GAMM	Q75z96	halomonas	s
683	32	61.5	114	2	Q4R1M5_9GAMM	Q4r1m5	halomonas	s
684	32	61.5	114	2	Q75Z92_9GAMM	Q75z92	halomonas	s
685	32	61.5	114	2	Q9I1S5_PSEAE	Q9i1s5	pseudomonas	
686	32	61.5	117	2	Q8I1A2_DROVI	Q8i1a2	drosophila	
687	32	61.5	120	2	Q8T4Z9_PLAFA	Q8t4z9	plasmodium	
688	32	61.5	121	2	Q9XZ76_PLAFA	Q9xz76	plasmodium	
689	32	61.5	122	2	Q9XZ75_PLAFA	Q9xz75	plasmodium	
690	32	61.5	122	2	Q8D1Y7_WIGBR	Q8d1y7	wiggleswort	
691	32	61.5	123	2	Q5C729_SCHJA	Q5c729	schistosoma	
692	32	61.5	124	2	Q95W75_PLAFA	Q95w75	plasmodium	
693	32	61.5	127	2	Q2HYE3_PLAFA	Q2hye3	plasmodium	
694	32	61.5	127	2	Q2HYE4_PLAFA	Q2hye4	plasmodium	
695	32	61.5	127	2	Q207C4_PLAFA	Q207c4	plasmodium	
696	32	61.5	127	2	Q207C3_PLAFA	Q207c3	plasmodium	
697	32	61.5	129	2	Q2HYF0_PLAFA	Q2hyf0	plasmodium	
698	32	61.5	131	2	Q8STC9_PLAFA	Q8stc9	plasmodium	
699	32	61.5	132	2	Q2VHT5_9LACT	Q2vht5	lactococcus	
700	32	61.5	134	2	Q3BGX0_PLAFA	Q3bgx0	plasmodium	
701	32	61.5	139	2	Q6S8K4_PLAFA	Q6s8k4	plasmodium	
702	32	61.5	150	2	Q98779_9RHAB	Q98779	vesicular	s
703	32	61.5	150	2	Q98780_9RHAB	Q98780	vesicular	s
704	32	61.5	150	2	Q98782_9RHAB	Q98782	vesicular	s
705	32	61.5	150	2	Q98784_9RHAB	Q98784	vesicular	s
706	32	61.5	150	2	Q98787_9RHAB	Q98787	vesicular	s
707	32	61.5	150	2	Q98789_9RHAB	Q98789	vesicular	s
708	32	61.5	150	2	Q98791_9RHAB	Q98791	vesicular	s
709	32	61.5	150	2	Q98792_9RHAB	Q98792	vesicular	s
710	32	61.5	150	2	Q9IG48_9RHAB	Q9ig48	vesicular	s
711	32	61.5	150	2	Q9IG50_9RHAB	Q9ig50	vesicular	s
712	32	61.5	150	2	Q9IG52_9RHAB	Q9ig52	vesicular	s
713	32	61.5	150	2	Q9IG56_9RHAB	Q9ig56	vesicular	s
714	32	61.5	150	2	Q9IG60_9RHAB	Q9ig60	vesicular	s
715	32	61.5	150	2	Q9IG67_9RHAB	Q9ig67	vesicular	s
716	32	61.5	150	2	Q9IG69_9RHAB	Q9ig69	vesicular	s
717	32	61.5	150	2	Q98778_9RHAB	Q98778	vesicular	s
718	32	61.5	150	2	Q98781_9RHAB	Q98781	vesicular	s
719	32	61.5	150	2	Q98783_9RHAB	Q98783	vesicular	s
720	32	61.5	150	2	Q98785_9RHAB	Q98785	vesicular	s
721	32	61.5	150	2	Q98786_9RHAB	Q98786	vesicular	s
722	32	61.5	150	2	Q98788_9RHAB	Q98788	vesicular	s
723	32	61.5	150	2	Q98790_9RHAB	Q98790	vesicular	s
724	32	61.5	150	2	Q9IG46_9RHAB	Q9ig46	vesicular	s
725	32	61.5	150	2	Q9IG54_9RHAB	Q9ig54	vesicular	s
726	32	61.5	150	2	Q9IG58_9RHAB	Q9ig58	vesicular	s
727	32	61.5	150	2	Q9IG61_9RHAB	Q9ig61	vesicular	s
728	32	61.5	150	2	Q9IG63_9RHAB	Q9ig63	vesicular	s
729	32	61.5	150	2	Q9IG65_9RHAB	Q9ig65	vesicular	s
730	32	61.5	150	2	Q9IG66_9RHAB	Q9ig66	vesicular	s
731	32	61.5	150	2	Q9IG70_9RHAB	Q9ig70	vesicular	s
732	32	61.5	151	2	Q6S8V1_PLAFA	Q6s8v1	plasmodium	
733	32	61.5	167	2	Q9HLY0_THEAC	Q9hly0	thermoplasm	
734	32	61.5	168	2	Q2D4U5_9FIRM	Q2d4u5	desulfotoma	
735	32	61.5	171	2	Q45VL5_POPTN	Q45vl5	populus tre	

736	32	61.5	173	2	Q1VRE1_9FLAO	Q1vre1 psychroflex
737	32	61.5	176	2	Q50U68_ENTHI	Q50u68 entamoeba h
738	32	61.5	178	2	Q5EAN6_RAT	Q5ean6 rattus norv
739	32	61.5	192	2	Q65MS2_BACLD	Q65ms2 bacillus li
740	32	61.5	192	2	Q479M0_DECAR	Q479m0 dechloromon
741	32	61.5	192	2	Q2K2N7_RHIEC	Q2k2n7 rhizobium e
742	32	61.5	197	2	Q4J0W1_AZOVI	Q4j0w1 azotobacter
743	32	61.5	199	2	Q62Y67_BACLD	Q62y67 bacillus li
744	32	61.5	199	2	Q3VR80_PROAE	Q3vr80 prosthecoch
745	32	61.5	200	2	Q464V0_METBF	Q464v0 methanosarc
746	32	61.5	200	2	Q1F0Q6_9CLOT	Q1f0q6 clostridium
747	32	61.5	200	2	Q5PGI4_SALPA	Q5pgi4 salmonella
748	32	61.5	201	2	Q3J2I2_RHOS4	Q3j2i2 rhodobacter
749	32	61.5	203	1	LOLA_ECO57	P61318 escherichia
750	32	61.5	203	1	LOLA_ECOL6	P61317 escherichia
751	32	61.5	203	1	LOLA_ECOLI	P61316 escherichia
752	32	61.5	203	1	LOLA_SALTI	Q8z813 salmonella
753	32	61.5	203	1	LOLA_SALTY	Q8zqd4 salmonella
754	32	61.5	203	1	LOLA_SHIFL	P61319 shigella fl
755	32	61.5	203	2	Q73UA7_MYCPA	Q73ua7 mycobacteri
756	32	61.5	204	2	Q1RE23_ECOUT	Q1re23 escherichia
757	32	61.5	204	2	Q3Z3M9_SHISS	Q3z3m9 shigella so
758	32	61.5	204	2	Q323L2_SHIBS	Q323l2 shigella bo
759	32	61.5	204	2	Q57R40_SALCH	Q57r40 salmonella
760	32	61.5	204	2	Q32E10_SHIDS	Q32e10 shigella dy
761	32	61.5	205	2	Q2S1T9_SALRD	Q2s1t9 salinibacte
762	32	61.5	206	1	RNFG_ECO57	P58345 escherichia
763	32	61.5	206	2	Q5NC77_SYNP6	Q5n077 synechococc
764	32	61.5	206	2	Q31LP6_SYNP7	Q31lp6 synechococc
765	32	61.5	207	2	Q7V8Y6_PROMM	Q7v8y6 prochloroco
766	32	61.5	210	2	Q29D39_DROPS	Q29d39 dysophila
767	32	61.5	211	2	Q1FQ94_9GAMM	Q1fq94 psychromona
768	32	61.5	214	2	Q55PM6_CRYNE	Q55pm6 cryptococcu
769	32	61.5	214	2	Q5KDT0_CRYNE	Q5kdt0 cryptococcu
770	32	61.5	222	2	Q3N9T8_9PROT	Q3n9t8 nitrosomona
771	32	61.5	223	2	Q83M30_SHIFL	Q83m30 shigella fl
772	32	61.5	226	2	Q1M5V3_RHIL3	Q1m5v3 rhizobium l
773	32	61.5	228	2	Q388E0_9TRYP	Q388e0 trypanosoma
774	32	61.5	229	2	Q3SDL6_PARTE	Q3sdl6 paramecium
775	32	61.5	233	2	Q5E5V7_VIBF1	Q5e5v7 vibrio fisc
776	32	61.5	244	2	Q98QW8_MYCPU	Q98qw8 mycoplasma
777	32	61.5	248	1	GPMA_BACFN	Q5lat7 bacteroides
778	32	61.5	248	1	GPMA_BACFR	Q64r85 bacteroides
779	32	61.5	248	2	Q8Y8G5_LISMO	Q8y8g5 listeria mo
780	32	61.5	248	2	Q92D80_LISIN	Q92d80 listeria in
781	32	61.5	249	2	Q84T41_ORYSA	Q84t41 oryza sativ
782	32	61.5	253	2	Q6P9C9_HUMAN	Q6p9c9 homo sapien
783	32	61.5	253	2	Q4MXZ0_BACCE	Q4mxz0 bacillus ce
784	32	61.5	253	2	Q5U4U9_XENLA	Q5u4u9 xenopus lae
785	32	61.5	254	2	Q3H8G9_TRIER	Q3h8g9 trichodesmi
786	32	61.5	257	2	Q1FZX4_9GAMM	Q1fzx4 psychromona
787	32	61.5	261	1	YLBA_ECOLI	P75713 escherichia
788	32	61.5	261	2	Q1RF20_ECOUT	Q1rf20 escherichia
789	32	61.5	261	2	Q57S40_SALCH	Q57s40 salmonella
790	32	61.5	261	2	Q5PCG3_SALPA	Q5pcg3 salmonella
791	32	61.5	261	2	Q7CR07_SALTY	Q7cr07 salmonella
792	32	61.5	261	2	Q8XFX7_SALTI	Q8xfx7 salmonella
793	32	61.5	261	2	Q8FK57_ECOL6	Q8fk57 escherichia
794	32	61.5	261	2	Q8XCV9_ECO57	Q8xcv9 escherichia
795	32	61.5	264	2	Q60ES3_ORYSA	Q60es3 oryza sativ
796	32	61.5	264	2	Q3H3I4_9ACTO	Q3h3i4 nocardioide

797	32	61.5	264	2	Q2BQ71_9GAMM	Q2bq71 oceanospiri
798	32	61.5	266	2	Q7SDC8_NEUCR	Q7sdc8 neurospora
799	32	61.5	270	2	Q1UD52_9GAMM	Q1ud52 psychrobact
800	32	61.5	270	2	Q3PJB9_PARDE	Q3pjb9 paracoccus
801	32	61.5	271	2	Q1WRE1_LACS1	Q1wre1 lactobacill
802	32	61.5	272	2	Q98KP2_RHILO	Q98kp2 rhizobium l
803	32	61.5	274	1	RRPP_VSVJM	P04878 vesicular s
804	32	61.5	274	1	RRPP_VSVJO	P04877 vesicular s
805	32	61.5	274	2	Q89043_9RHAB	Q89043 vesicular s
806	32	61.5	274	2	Q89045_9RHAB	Q89045 vesicular s
807	32	61.5	274	2	Q89048_9RHAB	Q89048 vesicular s
808	32	61.5	274	2	Q89049_9RHAB	Q89049 vesicular s
809	32	61.5	274	2	Q89050_9RHAB	Q89050 vesicular s
810	32	61.5	274	2	Q89053_9RHAB	Q89053 vesicular s
811	32	61.5	274	2	Q89055_9RHAB	Q89055 vesicular s
812	32	61.5	274	2	Q89056_9RHAB	Q89056 vesicular s
813	32	61.5	274	2	Q89041_9RHAB	Q89041 vesicular s
814	32	61.5	274	2	Q89042_9RHAB	Q89042 vesicular s
815	32	61.5	274	2	Q89044_9RHAB	Q89044 vesicular s
816	32	61.5	274	2	Q89046_9RHAB	Q89046 vesicular s
817	32	61.5	274	2	Q89047_9RHAB	Q89047 vesicular s
818	32	61.5	274	2	Q89051_9RHAB	Q89051 vesicular s
819	32	61.5	274	2	Q89052_9RHAB	Q89052 vesicular s
820	32	61.5	274	2	Q89054_9RHAB	Q89054 vesicular s
821	32	61.5	274	2	Q89057_9RHAB	Q89057 vesicular s
822	32	61.5	274	2	Q89527_9RHAB	Q89527 vesicular s
823	32	61.5	276	2	Q3MYU8_9DELT	Q3myu8 syntrophoba
824	32	61.5	276	2	Q3Y2V4_ENTFC	Q3y2v4 enterococcu
825	32	61.5	278	2	Q4ABK2_DROME	Q4abk2 drosophila
826	32	61.5	279	2	Q2CA92_9RHOB	Q2ca92 oceanicola
827	32	61.5	279	2	Q1I4H1_9PSED	Q1i4h1 pseudomonas
828	32	61.5	279	2	Q4K5I0_PSEF5	Q4k5i0 pseudomonas
829	32	61.5	279	2	Q88DN5_PSEPK	Q88dn5 pseudomonas
830	32	61.5	279	2	Q3K6B4_PSEPF	Q3k6b4 pseudomonas
831	32	61.5	280	1	EAEA_HAFAL	P52869 hafnia alve
832	32	61.5	280	2	Q1QAZ3_PSYCK	Q1qaz3 psychrobact
833	32	61.5	286	2	Q4HDT5_CAMCO	Q4hdt5 campylobact
834	32	61.5	288	2	Q36P09_MARHY	Q36p09 marinobacte
835	32	61.5	290	2	Q84WH6_ARATH	Q84wh6 arabidopsis
836	32	61.5	290	2	Q1QLK1_NITHX	Q1qlk1 nitrobacter
837	32	61.5	290	2	Q6N697_RHOPA	Q6n697 rhodopseudo
838	32	61.5	290	2	Q3SSA4_NITWN	Q3ssa4 nitrobacter
839	32	61.5	291	2	Q6L236_PICTO	Q6l236 picrophilus
840	32	61.5	291	2	Q2IX36_RHOP2	Q2ix36 rhodopseudo
841	32	61.5	291	2	Q89R33_BRAJA	Q89r33 bradyrhizob
842	32	61.5	291	2	Q4SLK0_TETNG	Q4slk0 tetraodon n
843	32	61.5	292	2	Q37II7_RHOPA	Q37ii7 rhodopseudo
844	32	61.5	292	2	Q5LUU9_SILPO	Q5luu9 silicibacte
845	32	61.5	296	2	Q7N5F5_PHOLL	Q7n5f5 photorhabdu
846	32	61.5	297	1	HM24_CAEBR	O17319 caenorhabdi
847	32	61.5	300	2	Q6AQM3_DESPS	Q6aqm3 desulfotale
848	32	61.5	303	2	Q7YYT5_CRYPV	Q7yyt5 cryptospori
849	32	61.5	304	2	Q388C9_9TRYP	Q388c9 trypanosoma
850	32	61.5	304	2	Q8KZ52_9PROT	Q8kz52 uncultured
851	32	61.5	304	2	Q1UCL2_9GAMM	Q1ucl2 psychrobact
852	32	61.5	304	2	Q9JYV0_NEIMA	Q9jvy0 neisseria m
853	32	61.5	308	2	Q15TX5_ALTAT	Q15tx5 pseudoalter
854	32	61.5	308	2	Q47XW4_COLP3	Q47xw4 colwellia p
855	32	61.5	309	2	Q9SGT5_ARATH	Q9sgt5 arabidopsis
856	32	61.5	315	1	NDF4_XENLA	P79920 xenopus lae
857	32	61.5	317	2	Q1UZY3_9RICK	Q1uzy3 candidatus

858	32	61.5	317	2	Q4FL83_PELUB	Q4fl83 pelagibacte
859	32	61.5	318	2	Q6C1M1_YARLI	Q6clm1 yarrowia li
860	32	61.5	321	2	Q8UBC3_AGR5	Q8ubc3 agrobacteri
861	32	61.5	323	2	Q43WM6_SOLUS	Q43wm6 solibacter
862	32	61.5	327	2	Q2XDC6_PSEPU	Q2xdc6 pseudomonas
863	32	61.5	327	2	Q4RES0_TETNG	Q4res0 tetraodon n
864	32	61.5	331	2	Q1T6A6_MEDTR	Q1t6a6 medicago tr
865	32	61.5	331	2	Q82BK2_STRAW	Q82bk2 streptomyce
866	32	61.5	335	2	Q3W3J1_9ACTO	Q3w3j1 frankia sp.
867	32	61.5	335	2	Q4KLF1_XENLA	Q4klf1 xenopus lae
868	32	61.5	337	2	Q2DHJ7_9DELT	Q2dhj7 geobacter u
869	32	61.5	337	2	Q3KJW8_PSEPF	Q3kjlw8 pseudomonas
870	32	61.5	338	2	Q86I81_DICDI	Q86i81 dictyosteli
871	32	61.5	338	2	Q55AF5_DICDI	Q55af5 dictyosteli
872	32	61.5	349	2	Q1ZL79_9VIBR	Q1zl79 vibrio angu
873	32	61.5	352	2	Q5NN25_ZYMMO	Q5nn25 zymomonas m
874	32	61.5	357	2	Q7PVQ3_ANOGA	Q7pvq3 anopheles g
875	32	61.5	363	2	Q7S8R6_NEUCR	Q7s8r6 neurospora
876	32	61.5	363	2	Q24UG5_DESHY	Q24ug5 desulfitoba
877	32	61.5	367	2	Q4XYP8_PLACH	Q4xyp8 plasmodium
878	32	61.5	368	2	Q2UHH2_ASPOR	Q2uhh2 aspergillus
879	32	61.5	370	2	Q7XIM9_ORYSA	Q7xim9 oryza sativ
880	32	61.5	370	2	Q80522_ARATH	Q80522 arabidopsis
881	32	61.5	371	2	Q5VRL0_ORYSA	Q5vrl0 oryza sativ
882	32	61.5	372	2	Q4IBJ5_GIBZE	Q4ibj5 gibberella
883	32	61.5	373	2	Q9FXB6_ARATH	Q9fxb6 arabidopsis
884	32	61.5	373	2	Q1VGT6_9FLAO	Q1vgt6 psychroflex
885	32	61.5	377	2	Q6AKZ8_DESPS	Q6akz8 desulfotale
886	32	61.5	379	2	Q4QKR3_HAEI8	Q4qkr3 haemophilus
887	32	61.5	380	1	BIOF_HAEIN	P44422 haemophilus
888	32	61.5	380	2	Q2DWQ7_9CHLR	Q2dwq7 dehalococco
889	32	61.5	380	2	Q5F6R6_NEIG1	Q5f6r6 neisseria g
890	32	61.5	380	2	Q9JT28_NEIMA	Q9jt28 neisseria m
891	32	61.5	380	2	Q9K0U0_NEIMB	Q9k0u0 neisseria m
892	32	61.5	381	2	Q53CH9_BPLC2	Q53ch9 lactococcus
893	32	61.5	381	2	Q38310_BPLC2	Q38310 lactococcus
894	32	61.5	382	2	Q2DLY4_9DELT	Q2dly4 geobacter u
895	32	61.5	383	2	Q725L7_DESVH	Q725l7 desulfovibr
896	32	61.5	384	2	Q891X7_CLOTE	Q891x7 clostridium
897	32	61.5	387	2	Q1YMP4_9RHIZ	Q1ymp4 aurantimona
898	32	61.5	397	2	Q3C3C1_9CLOT	Q3c3c1 alkaliphilu
899	32	61.5	397	2	Q4VWU8_XENLA	Q4vwu8 xenopus lae
900	32	61.5	399	2	Q8EL03_OCEIH	Q8el03 oceanobacil
901	32	61.5	401	2	Q7VZZ9_BORPE	Q7vzz9 bordetella
902	32	61.5	402	2	Q2GWG7_CHAGB	Q2gwg7 chaetomium
903	32	61.5	403	2	Q7Y1C3_ELECO	Q7ylc3 eleusine co
904	32	61.5	403	2	Q7WR40_BORBR	Q7wr40 bordetella
905	32	61.5	408	2	Q739D5_BACC1	Q739d5 bacillus ce
906	32	61.5	410	2	Q92JW7_RHIME	Q92jw7 rhizobium m
907	32	61.5	411	2	Q8I1E4_DROPS	Q8ile4 drosophila
908	32	61.5	412	2	Q4Y0Q5_PLACH	Q4y0q5 plasmodium
909	32	61.5	417	2	Q1T3I5_MEDTR	Q1t3i5 medicago tr
910	32	61.5	417	2	Q1T2M5_MEDTR	Q1t2m5 medicago tr
911	32	61.5	420	2	Q7W273_BORPA	Q7w273 bordetella
912	32	61.5	424	2	Q6K8A0_ORYSA	Q6k8a0 oryza sativ
913	32	61.5	425	2	Q556F8_DICDI	Q556f8 dictyosteli
914	32	61.5	425	2	Q8MKN3_DICDI	Q8mnk3 dictyosteli
915	32	61.5	425	2	Q4B4S9_9BURK	Q4b4s9 polaromonas
916	32	61.5	426	1	Y680_CHLPN	Q9z7m4 chlamydia p
917	32	61.5	428	2	Q3IA84_ECOLI	Q3ia84 escherichia
918	32	61.5	428	2	Q8EZ65_LEPIN	Q8ez65 leptospira

919	32	61.5	428	2	Q72MK3_LEPIC	Q72mk3 leptospira
920	32	61.5	431	2	Q4T5R2_TETNG	Q4t5r2 tetraodon n
921	32	61.5	433	2	Q1YXT8_PHOPR	Q1yxt8 photobacter
922	32	61.5	433	2	Q6LJ01_PHOPR	Q6lj01 photobacter
923	32	61.5	434	2	Q7YY93_CRYPV	Q7yy93 cryptospori
924	32	61.5	435	2	Q1MC72_RHIL3	Q1mc72 rhizobium l
925	32	61.5	437	1	TMPS4_HUMAN	Q9nrs4 homo sapien
926	32	61.5	440	1	TILS_BORBU	O51728 borrelia bu
927	32	61.5	440	2	Q7RAJ6_PLAYO	Q7raj6 plasmodium
928	32	61.5	442	2	Q483K9_COLP3	Q483k9 colwellia p
929	32	61.5	442	2	Q83FT0_TROWT	Q83ft0 tropheryma
930	32	61.5	445	2	Q7QK43_ANOGA	Q7qk43 anopheles g
931	32	61.5	445	2	Q4HJ88_CAMLA	Q4hj88 campylobact
932	32	61.5	447	2	Q1LE50_RALME	Q1le50 ralstonia m
933	32	61.5	449	2	Q1UBT6_9GAMM	Q1ubt6 psychrobact
934	32	61.5	450	2	O17865_CAEEL	O17865 caenorhabdi
935	32	61.5	452	2	Q440Z4_SOLUS	Q440z4 solibacter
936	32	61.5	457	2	Q41RF5_FERAC	Q41rf5 ferroplasma
937	32	61.5	462	2	Q2HAQ7_CHAGB	Q2haq7 chaetomium
938	32	61.5	474	2	Q5FWP3_XENLA	Q5fwp3 xenopus lae
939	32	61.5	475	2	Q173C2_AEDAE	Q173c2 aedes aegyp
940	32	61.5	475	2	Q16XD9_AEDAE	Q16xd9 aedes aegyp
941	32	61.5	476	2	Q59HC9_HUMAN	Q59hc9 homo sapien
942	32	61.5	476	2	Q4VWU7_XENLA	Q4vwu7 xenopus lae
943	32	61.5	479	2	Q7P6P6_FUSNV	Q7p6p6 fusobacteri
944	32	61.5	481	2	Q5NGC6_FRATT	Q5ngc6 francisella
945	32	61.5	482	2	Q6FVH9_CANGA	Q6fvh9 candida gla
946	32	61.5	485	2	Q6FVG3_CANGA	Q6fv3 candida gla
947	32	61.5	490	1	SYE_BDEBA	Q6mkr6 bdellovibri
948	32	61.5	495	2	Q49VD4_STAS1	Q49vd4 staphylococ
949	32	61.5	497	2	Q8A577_BACTN	Q8a577 bacteroides
950	32	61.5	505	2	Q4R6P4_MACFA	Q4r6p4 macaca fasc
951	32	61.5	507	2	Q7KWU1_DICDI	Q7kwu1 dictyosteli
952	32	61.5	508	2	Q4CYV8_TRYCR	Q4cyv8 trypanosoma
953	32	61.5	508	2	Q4DLM4_TRYCR	Q4dlm4 trypanosoma
954	32	61.5	510	2	Q269J3_MYCVN	Q269j3 mycobacteri
955	32	61.5	512	2	Q1TFB4_9MYCO	Q1tfb4 mycobacteri
956	32	61.5	512	2	Q1TZJ3_9MYCO	Q1t3j3 mycobacteri
957	32	61.5	512	2	Q1B6I6_9MYCO	Q1b6i6 mycobacteri
958	32	61.5	512	2	Q31C44_PROM9	Q31c44 prochloroco

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2	40	76.9	391	1	JS0624	fatty-acid beta-ox
3	39	75.0	720	2	T40900	micl homolog - fis
4	38	73.1	387	2	S60222	probable chlorophy
5	38	73.1	445	2	F81378	probable phospho-s
6	37	71.2	1464	2	T07050	hypothetical prote
7	36	69.2	86	2	B82905	hypothetical prote
8	36	69.2	134	2	T12219	glutaredoxin I - c
9	36	69.2	225	2	F71439	probable serine pr
10	36	69.2	407	2	A85191	probable serine pr
11	36	69.2	413	2	A54127	dolichyl-diphospho
12	36	69.2	439	2	AF1048	N-acetylmuramoyl-L
13	35	67.3	184	2	H86629	prophage ps1 prote
14	35	67.3	294	2	T46195	hypothetical prote
15	35	67.3	324	2	S74363	chlorophyll syntha
16	35	67.3	328	2	A86619	malate dehydrogenas
17	35	67.3	328	2	F72005	malate dehydrogena
18	35	67.3	334	1	OWECI	ornithine carbamoy
19	35	67.3	334	2	A86124	ornithine carbamoy
20	35	67.3	334	2	G91282	ornithine carbamoy
21	35	67.3	344	2	AH2365	chlorophyll syntha
22	35	67.3	435	2	AF3013	tolB protein [impo
23	35	67.3	443	2	A98271	tolB protein precu
24	35	67.3	463	2	A81337	glutamate-tRNA lig
25	35	67.3	551	2	F83015	hypothetical prote
26	35	67.3	591	2	G81133	adhesin NMB0992 [i
27	35	67.3	611	2	E86657	ABC transporter AT
28	35	67.3	1018	1	S73720	cytadherence acces
29	35	67.3	1411	2	S30355	alpha-latroinsecto
30	35	67.3	1647	2	T41267	hypothetical prote
31	34	65.4	89	2	T43992	hypothetical prote
32	34	65.4	160	2	E95284	hypothetical prote
33	34	65.4	204	2	D71648	hypothetical prote
34	34	65.4	273	2	AC1483	B. subtilis IolB p
35	34	65.4	274	2	AB0041	rhamnulose-1-phosp
36	34	65.4	411	2	A37755	xylanase (EC 3.2.1
37	34	65.4	440	2	E64571	transposase-like p
38	34	65.4	612	2	T00384	hypothetical prote
39	34	65.4	620	2	G90488	hypothetical prote
40	34	65.4	764	2	A45321	protein-glutamine
41	34	65.4	1129	2	T42732	A-kinase anchoring
42	33	63.5	52	2	S43961	hypothetical prote
43	33	63.5	123	2	F71178	hypothetical prote
44	33	63.5	135	2	AC0695	lactoylglutathione
45	33	63.5	135	2	JC6313	lactoylglutathione
46	33	63.5	135	2	D85772	lactoylglutathione
47	33	63.5	135	2	H90923	lactoylglutathione
48	33	63.5	135	2	E64922	lactoylglutathione
49	33	63.5	153	2	S34255	hypothetical prote
50	33	63.5	263	1	B69906	rarD protein homol
51	33	63.5	482	1	B69054	DNA-directed DNA p
52	33	63.5	483	1	T43234	protein kinase (EC
53	33	63.5	498	2	G97279	protein containing
54	33	63.5	528	1	T21523	protein' kinase (EC
55	33	63.5	589	1	DEFBC	malate dehydrogena
56	33	63.5	630	2	H83686	PTS system, beta-g
57	33	63.5	653	2	S33978	hypothetical prote
58	33	63.5	654	2	JC7658	beta-fructofuranos
59	33	63.5	694	2	F97279	TPR-repeat-contain
60	33	63.5	756	2	B97229	ATP-dependent supe
61	33	63.5	791	2	E90566	conserved hypothet
62	33	63.5	882	2	S41034	hypothetical prote

63	33	63.5	1073	1	OYHUHX	heat-stable entero
64	33	63.5	1403	2	T11583	probable translati
65	33	63.5	1975	2	B81192	hemagglutinin/hemo
66	33	63.5	1995	2	G81044	hemagglutinin/hemo
67	33	63.5	2015	2	B81989	hypothetical prote
68	32	61.5	72	2	C86714	hypothetical prote
69	32	61.5	91	2	T07231	hypothetical prote
70	32	61.5	98	2	A64143	hypothetical prote
71	32	61.5	114	2	D83373	conserved hypothet
72	32	61.5	204	2	H90750	outer membrane lip
73	32	61.5	204	2	S57828	outer membrane lip
74	32	61.5	204	2	F85614	outer membrane lip
75	32	61.5	204	2	AG0611	outer membrane lip
76	32	61.5	206	2	H85769	hypothetical prote
77	32	61.5	206	2	D90921	hypothetical prote
78	32	61.5	244	2	B90542	hypothetical prote
79	32	61.5	248	2	AC1192	hypothetical prote
80	32	61.5	248	2	AI1549	hypothetical prote
81	32	61.5	261	2	AH0567	conserved hypothet
82	32	61.5	261	2	B64783	hypothetical prote
83	32	61.5	261	2	D85551	hypothetical prote
84	32	61.5	261	2	A90701	hypothetical prote
85	32	61.5	274	1	MNVNVJ	polymerase-associa
86	32	61.5	274	1	MNVNVM	nonstructural prot
87	32	61.5	304	2	G81982	hypothetical prote
88	32	61.5	309	2	B96602	hypothetical prote
89	32	61.5	321	2	AG2936	transglycosylase A
90	32	61.5	321	2	H98345	hypothetical prote
91	32	61.5	370	2	B86227	hypothetical prote
92	32	61.5	373	2	D96608	hypothetical prote
93	32	61.5	380	2	H81830	8-amino-7-oxononan
94	32	61.5	380	2	C81194	8-amino-7-oxononan
95	32	61.5	380	2	D64129	probable 8-amino-7
96	32	61.5	426	2	E86575	phosphate permease
97	32	61.5	426	2	D72049	phosphate permease
98	32	61.5	440	2	C70198	conserved hypothet
99	32	61.5	450	2	T21931	hypothetical prote
100	32	61.5	507	1	A47198	cytochrome P450 6A
101	32	61.5	564	2	JC1519	3',5'-cyclic-nucle
102	32	61.5	602	2	E90568	DNA primase [impor
103	32	61.5	604	2	T37870	RNA-binding / Ran
104	32	61.5	713	2	T44447	neuregulin-3 [impo
105	32	61.5	765	2	E88924	protein R02C2.3 [i
106	32	61.5	794	2	D84765	similar to mammali
107	32	61.5	877	2	S65057	alpha-glucosidase
108	32	61.5	910	2	S76034	hypothetical prote
109	32	61.5	1253	1	A44400	myosin heavy chain
110	32	61.5	1278	2	S41646	p-glycoprotein - r
111	32	61.5	1281	2	I48123	p-glycoprotein iso
112	32	61.5	1583	2	T14176	probable phosphati
113	32	61.5	4152	2	T31102	filamentous hemagg
114	31	59.6	59	2	T47192	yciG protein [impo
115	31	59.6	59	2	C97785	hypothetical prote
116	31	59.6	97	2	C69321	conserved hypothet
117	31	59.6	106	2	T49742	hypothetical prote
118	31	59.6	148	2	B58933	ribosomal protein
119	31	59.6	156	2	S53031	hypothetical prote
120	31	59.6	161	2	T23853	hypothetical prote
121	31	59.6	171	2	C64247	conserved hypothet
122	31	59.6	172	2	S73542	MG428 homolog C12_
123	31	59.6	191	2	G75299	tellurium resistan

124	31	59.6	200	2	A96504	protein F9C16.19 {
125	31	59.6	204	2	C97866	hypothetical prote
126	31	59.6	206	2	G97796	RP534 protein homo
127	31	59.6	225	2	G75448	conserved hypothet
128	31	59.6	231	2	T48215	translation initia
129	31	59.6	247	2	F90510	conserved hypothet
130	31	59.6	250	2	E97797	hypothetical prote
131	31	59.6	253	2	T19329	hypothetical prote
132	31	59.6	263	2	D86644	hypothetical prote
133	31	59.6	274	2	E91232	rhamnulose-phospha
134	31	59.6	274	2	D86079	rhamnulose-phospha
135	31	59.6	274	2	C48649	rhamnulose-1-phosp
136	31	59.6	284	2	A97267	hypothetical prote
137	31	59.6	286	2	D69768	alcohol dehydrogen
138	31	59.6	290	1	B64657	conserved hypothet
139	31	59.6	290	2	C71859	hypothetical prote
140	31	59.6	297	2	F87567	integral membrane
141	31	59.6	299	2	S54087	probable membrane
142	31	59.6	307	2	T26060	hypothetical prote
143	31	59.6	314	2	T05757	hypothetical prote
144	31	59.6	316	2	S07569	protein H5 - slime
145	31	59.6	320	2	T31547	hypothetical prote
146	31	59.6	327	2	G89990	hypothetical prote
147	31	59.6	340	2	T49252	hypothetical prote
148	31	59.6	343	2	T20614	hypothetical prote
149	31	59.6	346	2	A42223	pyrimidine precurs
150	31	59.6	356	2	T06756	hypothetical prote
151	31	59.6	360	2	JE0362	cytotoxic necrotiz
152	31	59.6	363	2	T18100	histidine decarbox
153	31	59.6	363	2	S51104	outer membrane por
154	31	59.6	368	2	T21024	hypothetical prote
155	31	59.6	371	2	AH0147	outer membrane pro
156	31	59.6	380	2	T26570	hypothetical prote
157	31	59.6	381	2	T20622	hypothetical prote
158	31	59.6	391	2	F83269	fatty-acid oxidati
159	31	59.6	391	2	F82369	conserved hypothet
160	31	59.6	396	2	D81408	probable amidohydr
161	31	59.6	407	2	AC1346	antiporter protein
162	31	59.6	407	2	AF1716	antiporter protein
163	31	59.6	407	2	S74213	formamidase (EC 3.
164	31	59.6	410	2	T39115	formamidase-like p
165	31	59.6	427	2	T20835	hypothetical prote
166	31	59.6	453	2	D87672	glutamate-cysteine
167	31	59.6	469	2	T20047	hypothetical prote
168	31	59.6	471	2	PS0154	125K surface antig
169	31	59.6	473	2	T46305	hypothetical prote
170	31	59.6	492	2	T47146	hypothetical prote
171	31	59.6	494	2	S67314	regulatory protein
172	31	59.6	509	2	T30861	traJ protein - Sal
173	31	59.6	513	2	S08381	keratin, 58K type
174	31	59.6	518	2	A55840	macrophage bacteri
175	31	59.6	523	2	H90529	potassium uptake p
176	31	59.6	530	2	T30505	hypothetical prote
177	31	59.6	531	2	T20763	hypothetical prote
178	31	59.6	539	2	A54294	cell division cont
179	31	59.6	572	2	E82198	sensor histidine k
180	31	59.6	573	2	C86266	F3F19.21 protein -
181	31	59.6	577	2	T12536	hypothetical prote
182	31	59.6	615	2	B38575	gluconate 2-dehydr
183	31	59.6	630	2	S48910	hypothetical prote
184	31	59.6	632	2	T06586	DNA-binding protei

185	31	59.6	632	2	T31667	guanylate cyclase
186	31	59.6	632	2	T31666	natriuretic peptid
187	31	59.6	635	2	A36868	copA homolog - Xan
188	31	59.6	667	2	T15710	hypothetical prote
189	31	59.6	669	2	E84852	hypothetical prote
190	31	59.6	676	2	T21027	hypothetical prote
191	31	59.6	691	2	F91251	probable tape meas
192	31	59.6	714	2	A41464	hemolysin secretio
193	31	59.6	750	2	G81361	probable flagellin
194	31	59.6	768	2	D86404	unknown protein [i
195	31	59.6	785	2	F69099	sensory transducti
196	31	59.6	794	2	S73328	probable lipoprote
197	31	59.6	803	2	T40514	Chaperonin hsp78p
198	31	59.6	839	2	F64171	hypothetical prote
199	31	59.6	884	2	E86244	unknown protein, 4
200	31	59.6	902	2	E90270	conserved hypothet
201	31	59.6	929	2	C84493	probable Athila re
202	31	59.6	940	2	D89723	protein F39D8.1b [
203	31	59.6	945	2	T21998	hypothetical prote
204	31	59.6	949	2	D90803	AidA-I adhesin-lik
205	31	59.6	962	2	AC0125	pitrilysin (EC 3.4
206	31	59.6	1005	2	H85611	probable adhesin Z
207	31	59.6	1250	2	T30301	dynein heavy chain
208	31	59.6	1339	2	T38991	conserved hypothet
209	31	59.6	1485	2	S23756	CFTR protein - Afr
210	31	59.6	1545	2	T26589	hypothetical prote
211	31	59.6	2122	2	B75009	ribonucleotide red
212	30	57.7	83	2	AI0303	hypothetical prote
213	30	57.7	86	2	A81873	hypothetical prote
214	30	57.7	98	2	G95272	hypothetical prote
215	30	57.7	106	2	D86641	transcription regu
216	30	57.7	107	2	S61135	hypothetical prote
217	30	57.7	127	2	H90315	conserved hypothet
218	30	57.7	144	2	S23655	superoxide dismuta
219	30	57.7	158	2	E86993	hypothetical prote
220	30	57.7	162	2	A69411	conserved hypothet
221	30	57.7	162	2	AF2176	hypothetical prote
222	30	57.7	168	2	T45305	hypothetical prote
223	30	57.7	169	2	G83992	cell-cycle regulat
224	30	57.7	180	2	E71929	heat shock protein
225	30	57.7	188	2	AF1295	phosphoribosylglyc
226	30	57.7	188	2	AD1667	phosphoribosylglyc
227	30	57.7	215	2	AE2892	hypothetical prote
228	30	57.7	216	2	D97315	metallo-beta-lacta
229	30	57.7	222	1	WMVZB4	antithrombin-III h
230	30	57.7	229	2	AI1755	bacteriophage prot
231	30	57.7	240	2	T03379	heat shock protein
232	30	57.7	245	2	S56827	conserved hypothet
233	30	57.7	247	2	A75254	conserved hypothet
234	30	57.7	257	1	JQ1873	BR1 protein - toma
235	30	57.7	258	2	G69755	glucose 1-dehydrog
236	30	57.7	264	2	S37099	chlorophyll a/b bi
237	30	57.7	273	2	F71645	hypothetical prote
238	30	57.7	276	2	H97861	hypothetical prote
239	30	57.7	296	2	JT0548	killer toxin KHR p
240	30	57.7	309	2	B83277	electron transfer
241	30	57.7	313	2	A95859	conserved hypothet
242	30	57.7	315	2	AH0897	probable carbohydr
243	30	57.7	316	2	S73683	MG338 homolog P02_
244	30	57.7	318	2	B90458	hypothetical prote
245	30	57.7	318	2	F38888	COI intron 13 prot

246	30	57.7	320	2	C97933	hypothetical prote
247	30	57.7	327	2	S20038	fibronectin-bindin
248	30	57.7	327	2	S34434	antigen 85-B - Myc
249	30	57.7	327	2	G87162	antigen 85A, mycol
250	30	57.7	327	2	H97667	hypothetical prote
251	30	57.7	328	2	T19815	hypothetical prote
252	30	57.7	330	2	H82066	aspartate carbamoy
253	30	57.7	331	2	S73187	pyruvate dehydroge
254	30	57.7	331	2	T21156	hypothetical prote
255	30	57.7	333	2	C84792	hypothetical prote
256	30	57.7	337	2	A97010	dAHP synthase rela
257	30	57.7	341	1	WMVZHI	antithrombin-III h
258	30	57.7	344	2	E72173	D2R protein - vari
259	30	57.7	344	2	S46871	B13R protein - var
260	30	57.7	344	2	T28611	hypothetical prote
261	30	57.7	345	1	WMVZW2	antithrombin-III h
262	30	57.7	348	2	C98330	hypothetical prote
263	30	57.7	348	2	AB2953	hypothetical prote
264	30	57.7	349	2	E87284	sulfate-binding pr
265	30	57.7	351	2	T29922	hypothetical prote
266	30	57.7	351	2	B82496	immunogenic protei
267	30	57.7	353	2	T48310	hypothetical prote
268	30	57.7	364	2	F90672	probable adhesin [
269	30	57.7	365	1	B64228	hypothetical prote
270	30	57.7	369	2	B85523	hypothetical prote
271	30	57.7	379	2	AH3418	cytochrome c-type
272	30	57.7	410	2	T18670	probable ubiquinol
273	30	57.7	410	2	T01022	hypothetical prote
274	30	57.7	412	2	AB2610	aminopeptidase amp
275	30	57.7	412	2	A97392	aminopeptidase T (
276	30	57.7	414	2	A44654	dolichyl-diphospho
277	30	57.7	428	2	B95158	homoserine dehydro
278	30	57.7	439	2	B98024	homoserine dehydro
279	30	57.7	439	2	A84153	hypothetical prote
280	30	57.7	444	1	AJBSQU	glutamate-ammonia
281	30	57.7	444	2	H82821	NADH-ubiquinone ox
282	30	57.7	445	2	A45139	oligosaccharyltran
283	30	57.7	445	2	S41741	N-acetylmuramoyl-L
284	30	57.7	445	2	A86113	N-acetylmuramoyl-l
285	30	57.7	445	2	A91272	N-acetylmuramoyl-l
286	30	57.7	456	2	F84724	probable glucosylt
287	30	57.7	461	1	T43248	dihydrofolate redu
288	30	57.7	461	2	A70687	probable oxidoredu
289	30	57.7	466	2	AE1487	endo-1,4-beta-xyla
290	30	57.7	466	2	AH1126	endo-1,4-beta-xyla
291	30	57.7	478	2	A57174	protein-tyrosine k
292	30	57.7	479	2	A81714	6-phosphogluconate
293	30	57.7	480	2	I48760	protein-tyrosine k
294	30	57.7	488	2	I61704	succinate-semialde
295	30	57.7	502	2	T32786	hypothetical prote
296	30	57.7	504	2	AE2013	hypothetical prote
297	30	57.7	515	2	I40809	glutamyl-tRNA redu
298	30	57.7	519	2	A38073	transcription acti
299	30	57.7	521	1	FOLJST	gag polyprotein -
300	30	57.7	550	2	T40379	hypothetical prote
301	30	57.7	555	2	C97612	hypothetical prote
302	30	57.7	556	2	H95963	conserved hypothet
303	30	57.7	561	2	C86420	unknown protein, 1
304	30	57.7	569	2	B71902	hypothetical prote
305	30	57.7	573	2	C64611	hypothetical prote
306	30	57.7	581	2	E90449	conserved hypothet

307	30	57.7	585	2	T29911	hypothetical prote
308	30	57.7	587	2	S63033	hypothetical prote
309	30	57.7	596	2	A55976	cellulose 1,4-beta
310	30	57.7	598	2	AB1236	internalin protein
311	30	57.7	606	2	A99991	CDC48 like protein
312	30	57.7	628	2	A69381	type II secretion
313	30	57.7	631	2	S72270	alpha-amylase (EC
314	30	57.7	645	2	A71416	hypothetical prote
315	30	57.7	652	2	T28924	hypothetical prote
316	30	57.7	656	2	AC0573	outer membrane est
317	30	57.7	688	2	AC0328	probable potassium
318	30	57.7	692	2	G90284	hypothetical prote
319	30	57.7	695	2	AE1406	translation elonga
320	30	57.7	695	2	AE1782	translation elonga
321	30	57.7	702	1	A48562	coat protein - San
322	30	57.7	720	2	C84540	probable CDC21 pro
323	30	57.7	727	2	T47541	beta-galactosidase
324	30	57.7	729	2	T04269	probable beta-gala
325	30	57.7	731	2	S16595	gene CARSR12 prote
326	30	57.7	752	2	F84852	hypothetical prote
327	30	57.7	760	2	B96724	hypothetical prote
328	30	57.7	780	2	B70112	DNA mismatch repai
329	30	57.7	795	2	JC4234	gene fused protein
330	30	57.7	814	2	T02195	hypothetical prote
331	30	57.7	833	2	AH2444	hypothetical prote
332	30	57.7	835	2	T15177	hypothetical prote
333	30	57.7	907	2	I50404	p50B/p97 (Lyt-10)
334	30	57.7	932	2	S09151	suvar(3)7 protein
335	30	57.7	946	1	JC5667	multidrug resistan
336	30	57.7	952	2	I50612	protein-tyrosine k
337	30	57.7	954	2	AF2756	glycine cleavage s
338	30	57.7	954	2	E97537	glycine cleavage s
339	30	57.7	955	2	E84845	probable villin 2
340	30	57.7	970	2	I78842	receptor protein-t
341	30	57.7	975	2	F71518	hypothetical prote
342	30	57.7	976	2	T50669	villin 2 [imported
343	30	57.7	984	2	A39753	protein-tyrosine k
344	30	57.7	985	2	I51672	receptor tyrosine
345	30	57.7	986	2	B81675	polymorphic membra
346	30	57.7	995	2	A56599	embryo kinase 5 -
347	30	57.7	1026	2	S51432	hypothetical prote
348	30	57.7	1118	2	S44641	hypothetical prote
349	30	57.7	1122	2	T18346	MGC1 protein precu
350	30	57.7	1128	2	T42922	major single-stran
351	30	57.7	1208	2	S69015	AXL1 protein - yea
352	30	57.7	1214	2	AG2897	conserved hypothet
353	30	57.7	1230	2	T17187	CL3AB protein - ra
354	30	57.7	1230	2	T19899	hypothetical prote
355	30	57.7	1231	2	T18390	latrophilin-3, spl
356	30	57.7	1238	2	A64596	hypothetical prote
357	30	57.7	1240	2	T18393	latrophilin-3, spl
358	30	57.7	1273	2	T17188	CL3AC protein - ra
359	30	57.7	1274	2	T18391	latrophilin-3, spl
360	30	57.7	1276	1	DVMS2	multidrug resistan
361	30	57.7	1283	2	T18394	latrophilin-3, spl
362	30	57.7	1286	2	S28634	adhesin AIDA-I pre
363	30	57.7	1287	2	B53739	vacuolating cytoto
364	30	57.7	1288	2	T09908	hypothetical prote
365	30	57.7	1290	2	G64630	vacuolating cytoto
366	30	57.7	1298	2	T17199	CL3BB protein - ra
367	30	57.7	1299	2	T18398	latrophilin-3, spl

368	30	57.7	1300	2	S73679	probable lipoprote
369	30	57.7	1308	2	T18408	latrophilin-3, spl
370	30	57.7	1317	2	T14595	polyprotein - maiz
371	30	57.7	1341	2	T17200	CL3BC protein - ra
372	30	57.7	1342	2	T18405	latrophilin-3, spl
373	30	57.7	1351	2	T18409	latrophilin-3, spl
374	30	57.7	1387	2	A97673	probable periplasm
375	30	57.7	1442	2	S57160	sulfite reductase
376	30	57.7	1459	2	T17186	CL3AA protein - ra
377	30	57.7	1477	2	S64616	YOR1 protein - yea
378	30	57.7	1503	2	T18389	latrophilin-3, spl
379	30	57.7	1512	2	T18392	latrophilin-3, spl
380	30	57.7	1527	2	T17198	CL3BA protein - ra
381	30	57.7	1550	2	T14327	alpha-latrotoxin r
382	30	57.7	1571	2	T18395	latrophilin-3, spl
383	30	57.7	1580	2	T18407	latrophilin-3, spl
384	30	57.7	1596	2	A33106	neurogenic locus m
385	30	57.7	1603	2	T24098	hypothetical prote
386	30	57.7	1655	2	T13998	gene mastermind pr
387	30	57.7	1737	2	A37491	hypothetical helic
388	30	57.7	1742	2	S76110	hypothetical prote
389	30	57.7	1795	2	T30332	avirulence protein
390	30	57.7	1837	2	T41023	probable nuclear p
391	30	57.7	1847	2	T18308	probable vitelloge
392	30	57.7	2013	2	AD1129	probable peptidogl
393	30	57.7	2013	2	AI1489	probable peptidogl
394	30	57.7	2030	2	T33162	hypothetical prote
395	30	57.7	2095	2	S29529	genome polyprotein
396	30	57.7	2703	1	A24420	notch protein - fr
397	30	57.7	3194	2	D71917	toxin-like outer m
398	30	57.7	3705	2	AD0123	probable autotrans
399	30	57.7	3938	2	T42761	Bassoon protein -
400	30	57.7	3942	2	T42730	Bassoon protein -
401	30	57.7	5037	1	A54161	ryanodine-binding
402	30	57.7	6713	2	B89921	hypothetical prote
403	29.5	56.7	643	2	A97234	ABC-type transport
404	29	55.8	54	2	E97787	hypothetical prote
405	29	55.8	76	2	T32666	hypothetical prote
406	29	55.8	99	2	AD1454	hypothetical prote
407	29	55.8	99	2	AE1090	hypothetical prote
408	29	55.8	106	2	T00722	hypothetical prote
409	29	55.8	124	2	B70234	hypothetical prote
410	29	55.8	125	2	T24982	hypothetical prote
411	29	55.8	128	2	A32675	gastrotropin - pig
412	29	55.8	129	2	T44506	merR2 protein [imp
413	29	55.8	132	2	I51450	fatty acid binding
414	29	55.8	134	2	A71055	hypothetical prote
415	29	55.8	142	2	A72659	hypothetical prote
416	29	55.8	144	1	A28123	transcription fact
417	29	55.8	144	2	A81304	probable cytochrom
418	29	55.8	145	2	T05641	hypothetical prote
419	29	55.8	149	2	S12913	cystatin - fruit f
420	29	55.8	151	2	B90218	1SU ribosomal prot
421	29	55.8	154	2	A60998	replication protei
422	29	55.8	156	2	B91031	probable fimbrial
423	29	55.8	156	2	C85875	probable minor fim
424	29	55.8	160	2	JC7622	actinohivin precur
425	29	55.8	163	2	H86687	prophage ps2 prote
426	29	55.8	178	1	LYYXB4	beta-lytic metallo
427	29	55.8	183	2	B81310	single-strand DNA
428	29	55.8	195	2	G90902	probable transcrip

429	29	55.8	203	2	H82327	MSHA pilin protein
430	29	55.8	204	2	S73789	hypothetical prote
431	29	55.8	212	2	E69145	hypothetical prote
432	29	55.8	215	2	C69445	conserved hypothet
433	29	55.8	216	2	S27382	hypothetical prote
434	29	55.8	231	2	T19992	hypothetical prote
435	29	55.8	236	2	S51332	ubiquitin thiolest
436	29	55.8	237	2	B85714	hypothetical prote
437	29	55.8	237	2	AD1121	transcription regu
438	29	55.8	237	2	AG1481	transcription regu
439	29	55.8	240	2	T20657	hypothetical prote
440	29	55.8	243	2	T24981	hypothetical prote
441	29	55.8	247	2	S74902	aquaporin Z - Syne
442	29	55.8	254	2	A95216	type II restrictio
443	29	55.8	254	2	A31975	endonuclease dpnC
444	29	55.8	254	2	G98079	type II site-speci
445	29	55.8	259	2	G83491	probable NAD(P)H d
446	29	55.8	267	1	A26529	apolipoprotein A-I
447	29	55.8	267	1	LPHUA1	apolipoprotein A-I
448	29	55.8	267	2	JS0079	apolipoprotein A-I
449	29	55.8	268	2	AH2661	inositol monophosp
450	29	55.8	268	2	F97443	inositol monophosp
451	29	55.8	268	2	AC2546	hypothetical prote
452	29	55.8	269	1	A46330	polyhedrin - Euxoa
453	29	55.8	273	2	AI1122	B. subtilis IolB p
454	29	55.8	277	2	A46510	intercellular adhe
455	29	55.8	279	2	AB1412	conserved hypothet
456	29	55.8	279	2	AI1787	conserved hypothet
457	29	55.8	279	2	JC5403	hypothetical 32.1K
458	29	55.8	281	2	F69400	2-deoxy-D-gluconat
459	29	55.8	288	2	G70256	immunogenic protei
460	29	55.8	293	2	C71283	hypothetical prote
461	29	55.8	295	2	S49261	ornithine carbamoy
462	29	55.8	296	2	T27300	hypothetical prote
463	29	55.8	297	2	D84470	hypothetical prote
464	29	55.8	301	2	G83182	hypothetical prote
465	29	55.8	301	2	T21308	hypothetical prote
466	29	55.8	302	2	AG3407	florfenicol resist
467	29	55.8	306	2	E70447	ornithine carbamoy
468	29	55.8	307	2	T19987	hypothetical prote
469	29	55.8	308	2	E69771	ABC transporter (A
470	29	55.8	311	2	T26027	hypothetical prote
471	29	55.8	322	1	G70037	conserved hypothet
472	29	55.8	323	2	D85526	probable permease
473	29	55.8	323	2	A99676	probable permease
474	29	55.8	328	2	AI3600	UDPglucose 4-epime
475	29	55.8	329	2	A69776	hypothetical prote
476	29	55.8	337	2	H83913	transmembrane lipo
477	29	55.8	340	2	S74712	coproporphyrinogen
478	29	55.8	347	2	T06902	probable protoporp
479	29	55.8	347	2	H75427	S-layer-like array
480	29	55.8	349	2	T31934	hypothetical prote
481	29	55.8	351	2	A81791	2-dehydro-3-deoxy-
482	29	55.8	351	2	F81214	phospho-2-dehydro-
483	29	55.8	351	2	S78042	Ig mu chain C regi
484	29	55.8	352	2	S38147	hypothetical prote
485	29	55.8	354	2	I48848	TL antigen - mouse
486	29	55.8	355	2	C90144	terminal oxidase,
487	29	55.8	358	2	S40709	actin-binding prot
488	29	55.8	359	1	KIBP07	protein kinase (EC
489	29	55.8	359	2	D69705	phosphoserine amin

490	29	55.8	359	2	F86683	prophage pil prote
491	29	55.8	360	2	T27569	hypothetical prote
492	29	55.8	361	2	T48014	serine/threonine p
493	29	55.8	361	2	B25132	MHC class I histoc
494	29	55.8	361	2	I48851	TL antigen - mouse
495	29	55.8	367	1	WOHU	alpha-2-HS-glycopr
496	29	55.8	367	2	D85727	oxygen sensing pro
497	29	55.8	367	2	E90890	oxygen sensing pro
498	29	55.8	372	2	A25148	thymus leukemia an
499	29	55.8	374	1	LYYXLY	beta-lytic metallo
500	29	55.8	374	2	G83711	hypothetical prote
501	29	55.8	375	2	S26059	probable transform
502	29	55.8	377	2	C72750	probable acetamida
503	29	55.8	383	1	ALRZOC	alpha-amylase (EC
504	29	55.8	384	2	A25132	MHC class I histoc
505	29	55.8	384	2	I54499	MHC thymus leukemi
506	29	55.8	385	2	A71107	hypothetical prote
507	29	55.8	388	2	S26964	flavo-hemoglobin -
508	29	55.8	393	2	A81290	probable UDPglucos
509	29	55.8	393	2	E81438	helicase-like prot
510	29	55.8	395	2	H84765	hypothetical prote
511	29	55.8	396	2	T52445	hypothetical prote
512	29	55.8	400	2	E70805	probable mce4 prot
513	29	55.8	402	2	G83021	probable acyl-CoA
514	29	55.8	406	2	F64074	tyrosine-specific
515	29	55.8	406	2	A47696	acetamidase - Myco
516	29	55.8	407	2	S52148	amsK protein - Erw
517	29	55.8	409	1	A69455	histidyl-tRNA synt
518	29	55.8	411	2	AG1816	esterase [imported
519	29	55.8	412	2	AD2790	permease [imported
520	29	55.8	417	2	A32128	carboxypeptidase A
521	29	55.8	420	2	B83809	probable proteinas
522	29	55.8	421	2	T43534	transcription fact
523	29	55.8	422	2	C97569	hypothetical prote
524	29	55.8	427	2	D95159	3-phosphoshikimate
525	29	55.8	430	2	AG2256	dihydrolipoamide S
526	29	55.8	430	2	B26421	shufflon A' - Esch
527	29	55.8	430	2	AD0138	TolB colicin impor
528	29	55.8	431	2	D98025	3-phosphoshikimate
529	29	55.8	431	2	B96006	probable metabolit
530	29	55.8	432	2	D87649	tolB protein [impo
531	29	55.8	432	2	T08944	hypothetical prote
532	29	55.8	433	2	F26421	shufflon C' - Esch
533	29	55.8	433	2	T36122	probable integral
534	29	55.8	436	1	A70409	hypothetical prote
535	29	55.8	436	2	AC0805	acetyl-CoA C-acylt
536	29	55.8	436	2	D65007	acetyl-CoA C-acylt
537	29	55.8	436	2	A98032	probable acyltrans
538	29	55.8	436	2	B85876	probable acyltrans
539	29	55.8	436	2	C84743	probable tyrosine-
540	29	55.8	438	2	S64917	hypothetical prote
541	29	55.8	439	2	S69582	hypothetical prote
542	29	55.8	442	2	C26421	shufflon B - Esche
543	29	55.8	443	2	T13299	probable helicase
544	29	55.8	444	2	E26421	shufflon C - Esche
545	29	55.8	444	2	D26421	shufflon B' - Esch
546	29	55.8	448	2	T24770	hypothetical prote
547	29	55.8	451	2	F95869	probable ABC trans
548	29	55.8	456	2	G26421	shufflon D' - Esch
549	29	55.8	462	2	AH1053	probable exported
550	29	55.8	471	1	A38979	cellulose 1,4-beta

551	29	55.8	471	1	A26160	cellulose 1,4-beta
552	29	55.8	472	2	A97028	pyruvate kinase [i
553	29	55.8	474	2	A26421	shufflon A - Esche
554	29	55.8	474	2	AG3608	sensory transducti
555	29	55.8	477	2	F83519	conserved hypothet
556	29	55.8	486	2	G96713	probable DNA-bindi
557	29	55.8	490	2	I50613	protein-tyrosine k
558	29	55.8	491	2	T01856	hypothetical prote
559	29	55.8	492	2	C81379	probable outer mem
560	29	55.8	506	2	F64862	hypothetical prote
561	29	55.8	508	2	AD0076	probable membrane
562	29	55.8	509	2	AB0683	pyridine nucleotid
563	29	55.8	510	1	DEECXA	NAD(P) transhydrog
564	29	55.8	510	2	B85766	hypothetical prote
565	29	55.8	510	2	E90917	hypothetical prote
566	29	55.8	516	2	AE0665	probable membrane
567	29	55.8	517	2	T10857	trans-cinnamate 4-
568	29	55.8	526	2	B97130	site-specific reco
569	29	55.8	528	2	B95339	FixL-related histi
570	29	55.8	537	2	G85021	protoporphyrinogen
571	29	55.8	540	2	T03309	gene 12 protein, p
572	29	55.8	542	2	S58102	hypothetical prote
573	29	55.8	542	2	S64030	probable membrane
574	29	55.8	545	2	S51563	heat shock protein
575	29	55.8	545	2	T02005	protoporphyrinogen
576	29	55.8	559	2	T08174	sesquiterpene cycl
577	29	55.8	565	2	B89694	protein K11E4.5 [i
578	29	55.8	567	2	E91095	type III secretion
579	29	55.8	567	2	A85941	type III secretion
580	29	55.8	568	2	A45804	Ig mu chain C regi
581	29	55.8	569	2	T20702	hypothetical prote
582	29	55.8	570	2	AG1150	ABC transporter, A
583	29	55.8	570	2	AH1509	ABC transporter, A
584	29	55.8	571	2	AH1569	ABC transporters,
585	29	55.8	575	2	T22740	hypothetical prote
586	29	55.8	577	2	A97195	uncharacterized AB
587	29	55.8	587	2	G89785	hypothetical prote
588	29	55.8	597	1	S53711	C4BP alpha chain p
589	29	55.8	598	2	E71657	hypothetical prote
590	29	55.8	599	2	T15552	hypothetical prote
591	29	55.8	600	2	B96990	probable membrane
592	29	55.8	606	2	G71853	flagellar hook-ass
593	29	55.8	606	2	G64659	flagellar hook-ass
594	29	55.8	607	2	AB3511	oligoendopeptidase
595	29	55.8	608	2	H72292	hypothetical prote
596	29	55.8	608	2	C70111	V-type ATPase, sub
597	29	55.8	609	2	G71731	mitochondrial tran
598	29	55.8	614	2	B71551	probable s/t prote
599	29	55.8	625	2	E90236	arginyl-tRNA synth
600	29	55.8	630	2	C90470	hypothetical prote
601	29	55.8	634	2	JC7808	delta-glutamate re
602	29	55.8	639	2	D70931	hypothetical glyci
603	29	55.8	641	2	T50081	succinate dehydrog
604	29	55.8	641	2	JC7331	gamma-glutamyltran
605	29	55.8	645	2	G88130	protein F10G7.4 [i
606	29	55.8	651	2	PC1123	hypothetical prote
607	29	55.8	652	2	D96808	protein F28K19.6 [
608	29	55.8	653	2	T08984	auxin response fac
609	29	55.8	653	2	T12482	hypothetical prote
610	29	55.8	655	2	H71420	hypothetical prote
611	29	55.8	672	2	E84112	beta-galactosidase

612	29	55.8	672	2	S46086	RNA-binding protei
613	29	55.8	673	2	E89766	hypothetical prote
614	29	55.8	673	2	T44079	H+/K+-exchanging A
615	29	55.8	675	2	B90000	hypothetical prote
616	29	55.8	678	2	T02867	peptidyl dipeptida
617	29	55.8	680	2	S52820	hypothetical prote
618	29	55.8	686	2	A75126	hypothetical prote
619	29	55.8	693	2	G84683	hypothetical prote
620	29	55.8	716	2	S43693	penicillin-binding
621	29	55.8	725	2	G90555	vacb-like (shigell
622	29	55.8	726	2	AG0837	TonB-dependent out
623	29	55.8	727	2	B89923	PBP2 [imported] -
624	29	55.8	728	2	T26607	hypothetical prote
625	29	55.8	746	1	G65100	formate C-acetyltr
626	29	55.8	758	2	S54522	hypothetical prote
627	29	55.8	759	2	G85725	probable oxidoredu
628	29	55.8	759	2	H64903	hypothetical prote
629	29	55.8	759	2	B90892	probable oxidoredu
630	29	55.8	760	1	C2MS	classical-compleme
631	29	55.8	761	2	S46611	YTA10 protein - ye
632	29	55.8	764	2	AG0896	probable formate a
633	29	55.8	764	2	A85973	probable formate a
634	29	55.8	764	2	B91128	probable formate a
635	29	55.8	778	2	AD2877	conserved hypothet
636	29	55.8	778	2	F97653	hypothetical prote
637	29	55.8	779	2	F86416	probable RNA-bindi
638	29	55.8	797	2	D86247	hypothetical prote
639	29	55.8	807	2	D64902	hypothetical prote
640	29	55.8	814	2	AE2077	hypothetical prote
641	29	55.8	816	2	AI2444	hypothetical prote
642	29	55.8	822	2	I48742	ryanodine receptor
643	29	55.8	833	2	T22139	hypothetical prote
644	29	55.8	838	1	D65104	probable outer mem
645	29	55.8	838	2	F91131	probable outer mem
646	29	55.8	838	2	A85977	probable outer mem
647	29	55.8	865	2	D97018	ATPase with chaper
648	29	55.8	877	2	I48967	brain-specific kin
649	29	55.8	878	2	A41055	ecdysone receptor
650	29	55.8	879	2	JH0562	metabotropic gluta
651	29	55.8	893	2	S46442	nitrate reductase
652	29	55.8	893	2	S51603	receptor-like tyro
653	29	55.8	895	2	T03446	probable transcrip
654	29	55.8	898	2	S47489	receptor tyrosine
655	29	55.8	904	2	T15400	hypothetical prote
656	29	55.8	908	2	AE2254	hypothetical prote
657	29	55.8	917	2	I48950	telencephalin prec
658	29	55.8	979	1	JC2349	protein-tyrosine-p
659	29	55.8	981	2	S51604	receptor-like tyro
660	29	55.8	983	2	H64587	cag pathogenicity
661	29	55.8	983	2	F71926	cag pathogenicity
662	29	55.8	988	2	T45717	receptor-kinase li
663	29	55.8	991	2	I78843	receptor protein-t
664	29	55.8	996	2	I48721	PTP 35 protein - m
665	29	55.8	1005	2	S49015	receptor tyrosine
666	29	55.8	1006	2	T41104	probable transcrip
667	29	55.8	1009	2	T45645	receptor kinase-li
668	29	55.8	1013	2	I50615	receptor-type prot
669	29	55.8	1018	2	A32192	fibronectin-bindin
670	29	55.8	1028	2	A53449	plasmacytoma-assoc
671	29	55.8	1028	2	I58164	BIG-1 protein - ra
672	29	55.8	1043	2	T13733	FTZ-F1 protein - f

673	29	55.8	1116	2	T42213	m-tomosyn, isoform
674	29	55.8	1129	2	T43674	EGL-27 protein - C
675	29	55.8	1139	2	T33275	hypothetical prote
676	29	55.8	1220	2	T42573	DNA-directed DNA p
677	29	55.8	1276	2	S69048	probable membrane
678	29	55.8	1296	2	S55511	valine-tRNA ligase
679	29	55.8	1306	2	A70934	hypothetical glyci
680	29	55.8	1331	2	S75000	protoporphyrin IX
681	29	55.8	1396	2	S36851	L-shaped tail fibe
682	29	55.8	1407	2	S59823	probable membrane
683	29	55.8	1477	2	B43855	high-molecular-we
684	29	55.8	1548	2	T04456	hypothetical prote
685	29	55.8	1551	2	AH3488	gramicidin S biosy
686	29	55.8	1628	2	E90538	hypothetical prote
687	29	55.8	1666	2	T43169	hypothetical prote
688	29	55.8	1748	2	S42136	cnjB protein - Tet
689	29	55.8	1806	2	AF1717	probable peptidogl
690	29	55.8	1883	2	G82875	hypothetical prote
691	29	55.8	1957	2	T38077	hypothetical coile
692	29	55.8	1978	2	S77257	hypothetical prote
693	29	55.8	1999	2	AB2018	hypothetical prote
694	29	55.8	2032	2	I39917	hypothetical prote
695	29	55.8	2092	2	S30026	genome polyprotein
696	29	55.8	2103	1	JQ1621	genome polyprotein
697	29	55.8	2149	2	S18676	genome polyprotein
698	29	55.8	2287	2	T21312	hypothetical prote
699	29	55.8	2893	2	A64556	toxin-like outer m
700	29	55.8	3623	2	T09456	intrinsic factor-B
701	29	55.8	3623	2	T08618	intrinsic factor-B
702	29	55.8	3770	2	A40889	delta-(L-alpha-ami
703	29	55.8	4930	2	E69679	polyketide synthet
704	29	55.8	4967	2	S72269	ryanodine receptor
705	29	55.8	4969	2	A37113	ryanodine receptor
706	28.5	54.8	250	2	C81258	probable periplasm
707	28.5	54.8	327	2	AB1211	glycosyltransferas
708	28.5	54.8	900	2	E69631	galactosamine-cont
709	28	53.8	20	2	JA0142	proteinase inhibit
710	28	53.8	54	2	C97093	hypothetical prote
711	28	53.8	57	2	PQ0401	genome polyprotein
712	28	53.8	60	2	S35181	cytochrome P450 (c
713	28	53.8	64	2	H95284	hypothetical prote
714	28	53.8	80	2	T31116	mshD protein - Vib
715	28	53.8	80	2	C71656	hypothetical prote
716	28	53.8	80	2	E97794	integration host f
717	28	53.8	89	1	JN0726	Shiga-like toxin I
718	28	53.8	89	1	XVBPH9	Shiga-like toxin c
719	28	53.8	89	1	XVEBBD	Shigella toxin cha
720	28	53.8	89	2	E91000	Shiga toxin I subu
721	28	53.8	89	2	G85845	Shiga toxin I subu
722	28	53.8	89	2	B53887	Shiga-like toxin I
723	28	53.8	100	2	T10032	hypothetical prote
724	28	53.8	100	2	D87013	conserved hypothet
725	28	53.8	102	2	E64615	hypothetical prote
726	28	53.8	109	2	E64714	flagellar hook-bas
727	28	53.8	118	2	S34346	hypothetical prote
728	28	53.8	119	2	AI1591	B. subtilis PBSX p
729	28	53.8	120	2	B72358	hypothetical prote
730	28	53.8	122	2	C49590	Ig heavy chain V r
731	28	53.8	122	2	F84562	hypothetical prote
732	28	53.8	123	2	G64219	ribosomal protein
733	28	53.8	124	2	G85070	hypothetical prote

734	28	53.8	132	2	PQ0394	genome polyprotein
735	28	53.8	132	2	PQ0396	genome polyprotein
736	28	53.8	136	2	AI3353	protein yljA [impo
737	28	53.8	141	2	C24338	hemoglobin alpha-T
738	28	53.8	141	2	AB3143	hypothetical prote
739	28	53.8	141	2	B98145	hypothetical prote
740	28	53.8	143	1	GPVF	leghemoglobin I -
741	28	53.8	145	1	JQ1062	glycine-rich prote
742	28	53.8	145	2	E84469	probable glycine-r
743	28	53.8	146	2	A25233	replication protei
744	28	53.8	148	2	AB3437	SSU ribosomal prot
745	28	53.8	149	2	S53383	probable membrane
746	28	53.8	157	2	I40553	hypothetical DNA-b
747	28	53.8	158	2	A29827	replication protei
748	28	53.8	158	2	A61069	replication protei
749	28	53.8	160	2	S00714	phycocyanin 1 alph
750	28	53.8	160	2	C86051	hypothetical prote
751	28	53.8	160	2	A98205	hypothetical prote
752	28	53.8	162	2	B24497	replication protei
753	28	53.8	164	2	G96632	hypothetical prote
754	28	53.8	164	2	S74709	hypothetical prote
755	28	53.8	165	2	G85514	hypothetical prote
756	28	53.8	172	2	A27220	trypsin inhibitor
757	28	53.8	172	2	A24082	trypsin inhibitor
758	28	53.8	172	2	JH0780	trypsin inhibitor
759	28	53.8	172	2	A70864	hypothetical prote
760	28	53.8	174	2	T45335	hypothetical prote
761	28	53.8	179	2	S34345	hypothetical prote
762	28	53.8	180	2	T41102	probable n-termina
763	28	53.8	181	2	S42380	hypothetical prote
764	28	53.8	182	2	S51802	vomeronal secret
765	28	53.8	188	2	A98356	hypothetical prote
766	28	53.8	193	2	T24208	hypothetical prote
767	28	53.8	194	2	F71729	hypothetical prote
768	28	53.8	196	2	S22636	hypothetical prote
769	28	53.8	197	2	E86842	phosphoglycerate m
770	28	53.8	198	2	AC2716	glutathione S-tran
771	28	53.8	198	2	F97497	ureX protein (U899
772	28	53.8	202	2	E90663	replication protei
773	28	53.8	202	2	A85514	replication protei
774	28	53.8	204	2	G87575	hypothetical prote
775	28	53.8	207	2	F64223	hypothetical prote
776	28	53.8	207	2	T49552	hypothetical prote
777	28	53.8	207	2	T32882	hypothetical prote
778	28	53.8	209	2	PC1306	genome polyprotein
779	28	53.8	211	2	S37792	hypothetical prote
780	28	53.8	213	2	C64542	ABC transporter, A
781	28	53.8	218	2	G70438	hypothetical prote
782	28	53.8	219	2	E97100	phosphoserine phos
783	28	53.8	220	2	S20064	ribosomal protein
784	28	53.8	221	2	C84062	hypothetical prote
785	28	53.8	224	2	H81911	hypothetical prote
786	28	53.8	227	2	G81805	phosphoglycerate m
787	28	53.8	227	2	F81064	phosphoglycerate m
788	28	53.8	229	2	AF2926	hypothetical prote
789	28	53.8	232	2	T21526	hypothetical prote
790	28	53.8	237	2	E83510	flagellar basal-bo
791	28	53.8	237	2	C90267	conserved hypothet
792	28	53.8	238	2	AG3512	attachment mediati
793	28	53.8	241	2	D90282	hypothetical prote
794	28	53.8	242	2	C83230	hypothetical prote

795	28	53.8	248	1	ISBYT	triose-phosphate i
796	28	53.8	248	2	G83002	hypothetical prote
797	28	53.8	249	2	AC1455	conserved hypothet
798	28	53.8	249	2	AD1091	conserved hypothet
799	28	53.8	257	2	E83050	probable transcrip
800	28	53.8	257	2	AD3171	conserved hypothet
801	28	53.8	258	2	T51689	probable transcrip
802	28	53.8	259	2	JC7109	ST2V protein - hum
803	28	53.8	260	2	S38045	hypothetical prote
804	28	53.8	264	2	T30224	3-oxoacyl-(acyl ca
805	28	53.8	264	2	C81085	conserved hypothet
806	28	53.8	264	2	H81856	hypothetical prote
807	28	53.8	264	2	H90663	probable tail fibe
808	28	53.8	266	1	A35802	15-hydroxyprostagl
809	28	53.8	266	2	PQ0393	genome polyprotein
810	28	53.8	267	2	A75339	hypothetical prote
811	28	53.8	271	2	AH1733	probable recombina
812	28	53.8	271	2	AF1443	probable recombina
813	28	53.8	271	2	T24965	hypothetical prote
814	28	53.8	274	2	F90310	purine nucleoside
815	28	53.8	277	2	H82052	DNA adenine methyl
816	28	53.8	277	2	S57381	protein disulfide
817	28	53.8	281	2	S48458	hypothetical prote
818	28	53.8	284	1	LNRTL	hepatic lectin - r
819	28	53.8	284	2	AG3556	heat resistant agg
820	28	53.8	293	2	AF0617	probable DNA methy
821	28	53.8	296	2	S76657	hypothetical prote
822	28	53.8	298	2	AG2997	glutathione S-tran
823	28	53.8	299	2	S73406	hypothetical prote
824	28	53.8	302	2	S50609	hypothetical prote
825	28	53.8	304	2	A84811	hypothetical prote
826	28	53.8	307	2	T04713	probable formamida
827	28	53.8	307	2	F87952	protein T26E3.4 [i
828	28	53.8	308	2	G96582	hypothetical prote
829	28	53.8	308	2	T40266	probable ras relat
830	28	53.8	309	2	T38493	hypothetical prote
831	28	53.8	311	2	T23438	hypothetical prote
832	28	53.8	312	2	E85639	hypothetical prote
833	28	53.8	312	2	C91002	phage replication
834	28	53.8	312	2	T45739	transcription fact
835	28	53.8	315	2	E83064	hypothetical prote
836	28	53.8	315	2	T39444	hypothetical prote
837	28	53.8	315	2	E97186	glycosyltransferas
838	28	53.8	318	2	B98286	hypothetical prote
839	28	53.8	320	1	DDRT	helix-destabilizin
840	28	53.8	320	1	A44485	heterogeneous ribo
841	28	53.8	320	2	G84993	glutathione syntha
842	28	53.8	320	2	S04617	heterogeneous ribo
843	28	53.8	320	2	S30192	heterogeneous ribo
844	28	53.8	320	2	S02061	heterogeneous ribo
845	28	53.8	320	2	AF1892	[NiFe] uptake hydr
846	28	53.8	321	2	AE0304	probable dioxygena
847	28	53.8	322	2	C82293	riboflavin kinase/
848	28	53.8	324	2	A89803	hypothetical prote
849	28	53.8	326	2	S53027	cathepsin L (EC 3.
850	28	53.8	326	2	JQ1659	hypothetical 36K p
851	28	53.8	327	2	AH0506	hypothetical prote
852	28	53.8	328	2	S30444	ST2 protein - huma
853	28	53.8	329	2	AI1892	hypothetical prote
854	28	53.8	333	1	ORBPL	replication protei
855	28	53.8	334	2	B97715	hypothetical prote

856	28	53.8	334	2	C71718	hypothetical prote
857	28	53.8	335	2	T52249	probable basic hel
858	28	53.8	336	2	AH3180	agrobacterium viru
859	28	53.8	337	2	D90420	succinyl-CoA synth
860	28	53.8	337	2	B75370	probable ABC trans
861	28	53.8	338	2	AD1142	tagatose-1,6-dipho
862	28	53.8	338	2	AG1500	tagatose-1,6-dipho
863	28	53.8	339	2	T09334	citrate (si)-synth
864	28	53.8	340	2	AH1215	hypothetical prote
865	28	53.8	341	2	T25051	hypothetical prote
866	28	53.8	341	2	T25052	hypothetical prote
867	28	53.8	341	2	T33221	hypothetical prote
868	28	53.8	349	2	S43770	phosphatidylcholin
869	28	53.8	356	2	G96806	thaumatin-like pro
870	28	53.8	357	2	C89880	hypothetical prote
871	28	53.8	359	2	AG0674	probable isomerase
872	28	53.8	359	2	B96697	protein F1N21.20 [
873	28	53.8	360	2	T04535	hypothetical prote
874	28	53.8	360	2	F96618	RNA binding protei
875	28	53.8	361	2	D97956	conserved hypothet
876	28	53.8	362	2	S37218	fiber protein - hu
877	28	53.8	364	2	S43574	C05B5.3 protein (c
878	28	53.8	365	2	D86470	F21H2.9 protein -
879	28	53.8	365	2	A75375	hypothetical prote
880	28	53.8	366	2	F91283	hypothetical prote
881	28	53.8	366	2	H86124	hypothetical prote
882	28	53.8	366	2	S56487	hypothetical 40.4K
883	28	53.8	369	2	T33314	hypothetical prote
884	28	53.8	372	2	B70118	glycine betaine, L
885	28	53.8	373	2	F81438	probable periplasm
886	28	53.8	375	2	H64597	probable transamin
887	28	53.8	375	2	T06096	hypothetical prote
888	28	53.8	376	2	T39685	conserved hypothet
889	28	53.8	376	2	A97050	hypothetical prote
890	28	53.8	379	2	S46711	hypothetical prote
891	28	53.8	380	2	G97175	ADP-glucose pyroph
892	28	53.8	380	2	S03433	candidapepsin (EC
893	28	53.8	380	2	H87344	esterase, probable
894	28	53.8	381	2	T52461	RNA binding protei
895	28	53.8	389	2	C83202	alginate biosynthe
896	28	53.8	391	2	T39992	ribonucleoside-dip
897	28	53.8	391	2	S34808	ribonucleoside-dip
898	28	53.8	391	2	S75305	stage II sporulati
899	28	53.8	392	2	A81745	conserved hypothet
900	28	53.8	392	2	A53580	neurexin III beta
901	28	53.8	393	2	S49456	pyrimidine nucleos
902	28	53.8	394	2	D71379	probable sensory t
903	28	53.8	395	2	E90130	hypothetical prote
904	28	53.8	401	2	A40042	posterior determin
905	28	53.8	401	2	C88571	protein C05B5.3 [i
906	28	53.8	402	2	T51526	hypothetical prote
907	28	53.8	403	2	T27825	hypothetical prote
908	28	53.8	404	2	AC2159	hypothetical prote
909	28	53.8	407	2	C70816	hypothetical prote
910	28	53.8	407	2	D96721	hypothetical prote
911	28	53.8	408	2	E81347	histidine-tRNA lig
912	28	53.8	408	2	AI1194	proteinases homolo
913	28	53.8	408	2	AG1552	proteinases homolo
914	28	53.8	417	2	F75303	aminopeptidase - D
915	28	53.8	418	2	E90925	probable enzyme EC
916	28	53.8	418	2	A85774	probable enzyme Z2

917	28	53.8	418	2	B64924	hypothetical prote
918	28	53.8	421	2	T05611	hypothetical prote
919	28	53.8	424	2	E84166	hypothetical prote
920	28	53.8	424	2	T08276	probable transposa
921	28	53.8	426	2	B53580	neurexin III beta
922	28	53.8	429	2	T40112	3-hydroxyisobutyry
923	28	53.8	429	2	A25145	keratin, 47K type
924	28	53.8	429	2	S24705	probable segment i
925	28	53.8	430	2	T21060	hypothetical prote
926	28	53.8	430	2	AB2316	hypothetical prote
927	28	53.8	431	2	H96794	unknown protein F2
928	28	53.8	432	2	T04712	probable formamida
929	28	53.8	434	2	AH1990	hypothetical prote
930	28	53.8	436	2	T24555	hypothetical prote
931	28	53.8	437	2	H47070	probable O-antigen
932	28	53.8	439	1	TVMS	transforming prote
933	28	53.8	439	1	TVRTMC	transforming prote
934	28	53.8	440	4	TVHUT	transforming prote
935	28	53.8	441	2	D86750	sensor protein kin
936	28	53.8	442	2	E71882	is606 transposase
937	28	53.8	445	2	G81200	UDP-N-acetylmuramo
938	28	53.8	448	2	D98019	glutamate dehydrog
939	28	53.8	448	2	H95151	NADP-specific glut
940	28	53.8	452	2	AI0791	glycerol-3-phospha
941	28	53.8	454	2	PC4237	trans-cinnamate 4-
942	28	53.8	455	2	T26730	hypothetical prote
943	28	53.8	456	2	H84549	hypothetical prote
944	28	53.8	461	2	A43782	keratin, type II -
945	28	53.8	462	2	T46215	hypothetical prote
946	28	53.8	468	2	S37217	hexon protein - hu
947	28	53.8	470	2	S54029	hypothetical prote
948	28	53.8	471	2	B72314	hypothetical prote
949	28	53.8	471	2	T20690	hypothetical prote
950	28	53.8	473	2	D82935	conserved hypothet
951	28	53.8	475	2	B49681	long-chain-fatty-a
952	28	53.8	477	2	S62824	preprotein translo
953	28	53.8	482	2	S10180	bactericidal perme
954	28	53.8	482	2	T48384	hypothetical prote
955	28	53.8	485	2	T24115	hypothetical prote
956	28	53.8	491	2	H86712	cytochrome D ubiqu

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Title: US-10-782-728-1
Perfect score: 52
Sequence: 1 LKQNGGNFSL 10

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : Issued_Patents_AA:*

- 1: /EMC_Celerra_SIDS3/ptodata/2/iaa/5_COMB.pep:*
- 2: /EMC_Celerra_SIDS3/ptodata/2/iaa/6_COMB.pep:*
- 3: /EMC_Celerra_SIDS3/ptodata/2/iaa/7_COMB.pep:*
- 4: /EMC_Celerra_SIDS3/ptodata/2/iaa/H_COMB.pep:*
- 5: /EMC_Celerra_SIDS3/ptodata/2/iaa/PCTUS_COMB.pep:*
- 6: /EMC_Celerra_SIDS3/ptodata/2/iaa/RE_COMB.pep:*
- 7: /EMC_Celerra_SIDS3/ptodata/2/iaa/backfiles1.pep:*

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